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1 Identification		
· Product identifier		
• Trade name: <u>pH 10.5 Buffer Carrier</u> <u>w/o Sodium Sulfite</u> • Article number: VUL436		
• Details of the supplier • Manufacturer/Supplie Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 7753 USA 800-256-2586		AQUA
<ul> <li>Information departme Technical Coordinator Sherman Nelson sherm</li> <li>Emergency telephone Chemtrec: 800-424-93 Canutec: 613-996-666</li> </ul>	ann@aquasolutions.org a <b>umber:</b> 10	
2 Hazard(s) identific	ation	
· Classification of the su		
· Classification of the st	ostance or mixture	
GHS08 Hea	h hazard	
Toxic to Reproduction	B H360 May damage fertility or the unborn	ı child.
GHS07		
Skin Irritation 2	H315 Causes skin irritation.	
Eye Irritation 2A	H319 Causes serious eye irritation.	
· Label elements		
<ul> <li>GHS label elements T/</li> <li>Hazard pictograms</li> </ul>	e product is classified and labeled according	g to the Globally Harmonized System (GHS).
GHS07 GHS08		
· Signal word Danger		
• Hazard-determining constraints boric acid	mponents of labeling:	
· Hazard statements		
Causes skin irritation.	ation	
Causes serious eye irri May damage fertility o		
• Precautionary stateme		
Obtain special instruct	ons before use.	
Do not handle until all	safety precautions have been read and under	
		(Contd. on page

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### Trade name: pH 10.5 Buffer Carrier w/o Sodium Sulfite

	(Contd. of page 1)
Wash thoroughly after handling.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present a	and each to do
Continue rinsing.	na easy to ao.
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: 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)	
$\begin{array}{c} \textbf{Health} = 2\\ Fire = 0\\ Reactivity = 0 \end{array}$	
Keucuvuy = 0	
· HMIS-ratings (scale 0 - 4)	
$\begin{array}{c c} \text{HEALTH} & \text{*2} \\ \end{array} & Health = \text{*2} \\ \end{array}$	
FIRE 0 Fire = 0	
<b>REACTIVITY</b> $0$ Reactivity = 0	
· Other hazards	
• Results of PBT and vPvB assessment	
· <b>PBT:</b> Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	
5 Composition/injormation on ingreatents	
• Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
CAS: 10043-35-3 boric acid	1.53%
CAS: 1310-73-2 Sodium Hydroxide	0.99%

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

# 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

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

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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97.48%

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Trade name: pH 10.5 Buffer Carrier w/o Sodium Sulfite

• *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 Not required.
- · 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
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

• PAC-1:				
CAS: 10043-35-3	boric acid	6 mg/m <sup>3</sup>		
CAS: 1310-73-2	Sodium Hydroxide	$0.5 \ mg/m^3$		
· PAC-2:				
CAS: 10043-35-3	boric acid	23 mg/m <sup>3</sup>		
CAS: 1310-73-2	Sodium Hydroxide	5 mg/m <sup>3</sup>		
· PAC-3:				
CAS: 10043-35-3	boric acid	830 mg/m <sup>3</sup>		
CAS: 1310-73-2	Sodium Hydroxide	50 mg/m <sup>3</sup>		

### 7 Handling and storage

· Handling:

- *Precautions for safe handling Open and handle receptacle with care.*
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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: Keep receptacle tightly sealed.
- $\cdot$  Specific end use(s) No further relevant information available.

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### 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: 10043-35-3 boric acid

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

#### CAS: 1310-73-2 Sodium Hydroxide

- PEL Long-term value: 2 mg/m<sup>3</sup>
- *REL Ceiling limit value: 2 mg/m<sup>3</sup>*

TLV Ceiling limit value: 2 mg/m<sup>3</sup>

• 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. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
  Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

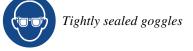
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

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.

#### · 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:



· Body protection: Protective work clothing

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9 Physical and chemical proper	ties
• Information on basic physical and c • General Information	hemical properties
· Appearance: Form:	7 · · · 1
	Liquid
Color:	Clear
· Odor:	Odorless Not determined.
· Odor threshold:	
• <i>pH-value at 20</i> ° <i>C</i> (68 ° <i>F</i> ):	10.5
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	0 °C (32 °F) 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.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):	1.00999 g/cm <sup>3</sup> (8.42837 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Water:	97.5 %
VOC content:	0.00~%
	0.0 g/l / 0.00 lb/gal
Solids content:	2.5 %
• Other information	No further relevant information available.

# 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.

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· 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: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· 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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Trade name: pH 10.5 Buffer Carrier w/o Sodium Sulfite

· Recommended cleansing agent: Water, if necessary with cleansing agents.

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

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Water

boric acid

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ACTIVE

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# Safety Data Sheet acc. to OSHA HCS

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#### Trade name: pH 10.5 Buffer Carrier w/o Sodium Sulfite

	(Contd. of page 7
Sodium Hydroxide	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
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.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
CAS: 10043-35-3 boric acid	I (oral)
· TLV (Threshold Limit Value)	
CAS: 10043-35-3 boric acid	A4
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 H	armonized System (GHS).

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: boric acid · Hazard statements Causes skin irritation. Causes serious eye irritation. 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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. (Contd. on page 9)

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Trade name: pH 10.5 Buffer Carrier w/o Sodium Sulfite

(Contd. of page 8)

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: Environment protection department.

· Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2 07/22/2024: Reviewed SDS for accuracy. MH/STN 07/22/2024 / -· Abbreviations and acronyms: 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) VOC: Volatile Organic Compounds (USA, EU) 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 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 1B: Reproductive toxicity - Category 1B  $\cdot$  \* Data compared to the previous version altered.

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