

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/27/2023

Reviewed on 06/27/2023

1 Identification

Product identifier**Trade name:** BUFFER SOLUTION pH 10.00 ± 0.01 @ 20°C***Article number:** 1100***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.ieEmergency 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 identification

***Classification of the substance or mixture**

GHS08 Health hazard

Reproductive Toxicity - Category 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**

GHS08

Signal word** DangerHazard-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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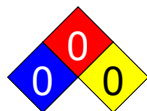
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*Classification system:

*NFPA ratings (scale 0-4)



Health = 0

Fire = 0

Reactivity = 0

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

1-5% w/w *

* Actual concentration ranges are withheld as a trade secret.

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: No special measures required.

*Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

*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.

7 Handling and storage

*Handling:

*Precautions for safe handling

Keep receptacles tightly sealed.

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- 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

EL	STEL: 6 mg/m ³ TWA: 2 mg/m ³
EV	STEL: 6 mg/m ³ TWA: 2 mg/m ³ inorganic, inhalable

***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

***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.

9 Physical and chemical properties

***Information on basic physical and chemical properties**

***General Information**

***Appearance:**

Form:	Liquid
Color:	Colorless
*Odor:	Odorless

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* Odor threshold:	Not determined.
* pH-value at 20 °C:	10
* Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C
* Flash point:	Not applicable.
* Flammability (solid, gaseous):	Not applicable.
* Decomposition temperature:	Not determined.
* Auto igniting:	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:	23 hPa
* Density at 20 °C:	1.02912 g/cm ³
* Relative density	Not determined.
* Vapor 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.
* Solvent content: Water:	97.8 %
Solids content:	2.2 %
* 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.
- ***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.

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***Additional toxicological information:**

***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.

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.

14 Transport information

***UN-Number**

***DOT/TDG, ADR, IMDG, IATA** Void

***UN proper shipping name**

***DOT/TDG, ADR, IMDG, IATA** Void

***Transport hazard class(es)**

***DOT, ADR, IMDG, IATA**

***Class** Void

***Packing group**

***DOT/TDG, ADR, IMDG, IATA** Void

***Environmental hazards:** Not applicable.

***Special precautions for user** Not applicable.

***Transport in bulk according to Annex II of**

MARPOL 73/78 and the IBC Code Not applicable.

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*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
CAS: 1310-73-2	sodium hydroxide	ACTIVE

*MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

*GHS label elements

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

*Hazard pictograms



GHS08

*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 the latest revision of the safety data sheet 06/27/2023

*Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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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

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