

Safety Data Sheet
acc. to OSHA HCS

Printing date 06/27/2023

Reviewed on 06/27/2023

1 Identification

***Product identifier**

***Trade name:** BUFFER SOLUTION pH 1.00 ± 0.02 @ 25°C

***Article number:** 101025

***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**

The product is not classified, according to the Globally Harmonized System (GHS).

***Label elements**

***GHS label elements** Void

***Hazard pictograms** Void

***Signal word** Void

***Hazard statements** Void

***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: 7647-01-0	hydrochloric acid 37%	≥1-≤2.5%
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***Non- Hazardous Components**

CAS: 7732-18-5	PURIFIED WATER	50-100%
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CAS: 7447-40-7	potassium chloride
	≤2.5%

4 First-aid measures

- ***Description of first aid measures**
- ***General information:** No special measures required.
- ***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:** Do not induce vomiting; immediately call for medical help.
- ***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** 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).
Ensure adequate ventilation.
- ***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.
- ***Protective Action Criteria for Chemicals**

* PAC-1:	None of the ingredients is listed.
* PAC-2:	None of the ingredients is listed.
* PAC-3:	None of the ingredients is listed.

7 Handling and storage

- ***Handling:**
- ***Precautions for safe handling**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

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***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:** Keep receptacle tightly sealed.

***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:**

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 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.

Avoid contact with the eyes and skin.

***Breathing equipment:**

Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

***Protection of hands:**



Protective gloves

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:**



Tightly sealed goggles

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9 Physical and chemical properties

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

***General Information**

***Appearance:**

Form:	Fluid
Color:	Colorless
*Odor:	Odorless
*Odor threshold:	Not determined.

***pH-value:** Not determined.

***Change in condition**

Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)

***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 (68 °F):** 23 hPa (17.3 mm Hg)

***Density at 20 °C (68 °F):** 1.00427 g/cm³ (8.38063 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/water):** Not determined.

***Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

***Solvent content:**

Water: 98.2 %

Solids content: 0.4 %

***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.

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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:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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:** Smaller quantities can be disposed of with household waste.

***Uncleaned packagings:**

***Recommendation:** Disposal must be made according to official regulations.

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

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14 Transport information

*UN-Number	UN1789
*DOT, ADR, IMDG, IATA	UN1789
*UN proper shipping name	Hydrochloric acid mixture
*DOT	1789 HYDROCHLORIC ACID mixture
*ADR	1789 HYDROCHLORIC ACID, mixture
*IMDG, IATA	HYDROCHLORIC ACID mixture
*Transport hazard class(es)	
*DOT	
	
*Class	8 Corrosive substances
*Label	8
*ADR, IMDG, IATA	
	
*Class	8 Corrosive substances
*Label	8
*Packing group	III
*DOT, ADR, IMDG, IATA	III
*Environmental hazards:	
*Marine pollutant:	No
*Special precautions for user	Warning: Corrosive substances
*Hazard identification number (Kemler code):	80
*EMS Number:	F-A,S-B
*Segregation groups	(SGG1) Acids
*Stowage Category	E
*Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
*UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID MIXTURE, 8, III

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: 7447-40-7	potassium chloride	ACTIVE

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***Hazardous Air Pollutants**

None of the ingredients is listed.

***Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

Carcinogenicity categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

***TLV (Threshold Limit Value)**

None of the ingredients is listed.

***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.

GHS label elements** VoidHazard pictograms** Void***Signal word** Void***Hazard statements** Void***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 SafetyContact:** 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

**** Data compared to the previous version altered.**