

1 Identification of the substance/mixture and of the company/undertaking

***Product identifier**

***Trade name:** BUFFER SOLUTION pH 4.00 ± 0.01 @ 25°C

***Article number:** 1040525C

***Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

***Application of the substance / the preparation** Laboratory chemicals

***Details of the supplier of the safety data sheet**

***Manufacturer/Supplier:**

Reagecon Diagnostics Ltd.

Shannon Free Zone,


Shannon,

Co. Clare,

IRL.

Tel +353 61 472622

Fax +353 61 472642

***Further information obtainable by contacting:**  sds@reagecon.ie

***Emergency telephone number:**

24 HOUR EMERGENCY CONTACT NUMBER AVAILABLE :- If phoning from USA 011-353-87-9518207,

If phoning from Rest of World 00-353-87-9518207

2 Hazards identification

***Classification of the substance or mixture**

***Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

***Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.

***Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

***Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

***Label elements**

***Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

***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 substances listed below with nonhazardous additions.

***Dangerous components:** Void

***Additional information:** For the wording of the listed risk phrases refer to section 16.

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4 First aid measures

***Description of first aid measures**

***General information:** No special measures required.

***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 Firefighting measures

***Extinguishing media**

***Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

***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.

Do not allow to enter sewers/ surface or ground 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.

See Section 13 for disposal information.

7 Handling and storage

***Handling:PPE to be worn.** See section 8

***Precautions for safe handling** No special measures required.

***Information about fire - and explosion protection:** 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 facilities:** No further data; see item 7.

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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.

Exposure controls**Personal protective equipment:*****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

***Respiratory protection:** Suitable respiratory protective device recommended.

***Protection of hands:**

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.

***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
Colour:	Red
*Odour:	Odourless
*Odour threshold:	Not determined.

***pH-value at 20 °C:** 4

***Change in condition**

Melting point/Melting range:	0 °C
Boiling point/Boiling range:	100 °C

***Flash point:** Not applicable.

***Flammability (solid, gaseous):** Not applicable.

***Ignition temperature:**

Decomposition temperature: Not determined.

***Self-igniting:** Product is not selfigniting.

***Danger of explosion:** Product does not present an explosion hazard.

***Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

***Vapour pressure at 20 °C:** 23 hPa

***Density:** Not determined.

***Relative density** Not determined.

***Vapour density** Not determined.

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* Evaporation rate	Not determined.
* Solubility/ miscibility with water:	Fully miscible.
* Partition coefficient (n-octanol/water):	Not determined.
* Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
* Solvent content:	
Organic solvents:	0.0 %
* Other information	No further relevant information available.

10 Stability and reactivity

- ***Reactivity**
- ***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:**
- The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
- When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- ***Toxicity**
 - ***Aquatic toxicity:** No further relevant information available.
 - ***Persistence and degradability** No further relevant information available.
 - ***Behaviour in environmental systems:**
 - ***Bioaccumulative potential** No further relevant information available.
 - ***Mobility in soil** No further relevant information available.
 - ***Additional ecological information:**
 - ***General notes:**
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- ***Results of PBT and vPvB assessment**
 - ***PBT:** Not applicable.
 - ***vPvB:** Not applicable.

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***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 packaging:**

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

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

14 Transport information

***UN-Number**

***ADR, ADN, IMDG, IATA** Void

***UN proper shipping name**

***ADR, ADN, IMDG, IATA** Void

***Transport hazard class(es)**

***ADR, ADN, IMDG, IATA**

***Class** Void

***Packing group**

***ADR, IMDG, IATA** Void

***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:** Not dangerous according to the above specifications.

***UN "Model Regulation":** -

15 Regulatory information

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

***National regulations:**

***Waterhazard class:** Water hazard class 1 (Self-assessment): slightly 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 MSDS:** Health and Safety

***Contact:** sds@reagecon.ie

***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 Organization

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

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IATA: International Air Transport Association

GHS: Globally Harmonized 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)

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