

## Material Safety Data Sheet According to 91/155 EEC

Printing date 19.01.2007

version number 5

Reviewed on 13.05.2005

### 1 Identification of the substance/preparation and of the company/undertaking

\***Trade name:** BUFFER SOLUTION pH 11.00 ± 0.05 @ 25°C

\***Article number:** 511025

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

\***Manufacturer/Supplier:**

Reagecon Diagnostics Ltd.

Shannon Free Zone,

Shannon,

Co. Clare,

IRL.

Tel +353 61 472622

Fax +353 61 472642

\***Further information obtainable from:** EMERGENCY CONTACT NUMBER :- 353-87-7976154

### 2 Composition/information on ingredients

\***Chemical characterization:**

\***CAS No. Description**

Purified Water

\***Identification number(s)**

\***EINECS Number:** 231-791-2

\***Chemical characterization**

\***Description:** Mixture of substances listed below with nonhazardous additions.

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

### 3 Hazards identification

\***Hazard description:** Not applicable.

\***Information concerning to particular hazards to man 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.

### 4 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.

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### 5 Fire-fighting measures

**\*Suitable extinguishing agents:***CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***\*Protective equipment:** *No special measures required.*

### 6 Accidental release measures

**\*Person-related safety precautions:** *Not required.***\*Measures for environmental protection:** *Dilute with plenty of water.***\*Measures for cleaning/collecting:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).***\*Additional information:** *No dangerous substances are released.*

### 7 Handling and storage

**\*Handling:PPE to be worn. See section 8****\*Information for safe handling:** *No special measures required.***\*Information about fire - and explosion protection:** *No special measures required.***\*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.*

### 8 Exposure controls/personal protection

**\*Additional information about design of technical facilities:** *No further data; see item 7.***\*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.***\*Personal protective equipment:****\*General protective and hygienic measures:***The usual precautionary measures are to be adhered to when handling chemicals.***\*Respiratory protection:** *Not required.***\*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. 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.*

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**\*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

**\*General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic

**\*Change in condition**

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

**\*Flash point:** Not applicable.

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

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

**\*Density at 20°C:** 1.0 g/cm<sup>3</sup>

**\*Solubility/ miscibility with water:** Fully miscible.

**\*Solvent content:**  
**Organic solvents:** 0.0 %

### 10 Stability and reactivity

**\*Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**\*Dangerous reactions** No dangerous reactions known.

**\*Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

**\*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.

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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

**\*General notes:** Generally not hazardous for water

### 13 Disposal considerations

**\*Product:**

**\*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

**\*Land transport ADR/RID (cross-border)**

**\*ADR/RID class:** -

**\*Maritime transport IMDG:**

**\*IMDG Class:** -

**\*Marine pollutant:** No

**\*Air transport ICAO-TI and IATA-DGR:**

**\*ICAO/IATA Class:** -

**\*Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulatory information

**\*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).

**\*National regulations:**

**\*Waterhazard class:** Generally not hazardous for water.

### 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:** Safety Officer

**\*Contact:** Mr. John O'Keeffe