

Material Safety Data Sheet According to 91/155 EEC

Printing date 19.01.2007

version number 10

Reviewed on 13.05.2005

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

***Trade name:** BUFFER SOLUTION pH 12.00 ± 0.05 @ 20°C

***Article number:** 1120

***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.

IRL

(Contd. on page 2)

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(Contd. of page 1)

5 Fire-fighting measures

Suitable extinguishing agents:CO₂, 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.*

(Contd. on page 3)

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(Contd. of page 2)

***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**

Form:	Liquid
Colour:	According to product specification
Odour:	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/cm³

***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.

(Contd. on page 4)

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(Contd. of page 3)

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