

Material Safety Data Sheet According to 91/155 EEC

Printing date 19.01.2007

version number 42

Reviewed on 13.05.2005

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

***Trade name:** BUFFER SOLUTION pH 4.00 ± 0.01 @ 20°C

***Article number:** 5040C

***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**

***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.

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.

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6 Accidental release measures

- ***Person-related safety precautions:** Not required.
- ***Measures for environmental protection:**
 - Dilute with plenty of water.
 - Do not allow to enter sewers/ surface or ground 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.
 - ***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.

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***Eye protection:** Goggles recommended during refilling

9 Physical and chemical properties

***General Information**

Form:	Liquid
Colour:	Red
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.

***pH-value at 20°C:** 4.0

***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:**

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.

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:** Water hazard class 1 (Self-assessment): slightly 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.

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***Department issuing MSDS: Safety Officer**

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

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