

1 Identification

***Product identifier**

***Trade name:** *pH Buffer Solution pH 4.00 (Red) ± 0.01 @20°C*
Certified Traceable to N.I.S.T.

***Article number:** 11064974

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

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

***Manufacturer/Supplier:** See Below

***Manufacturer:**

Reagecon Diagnostics Ltd.
Shannon Free Zone,
Shannon,
Co. Clare,
Ireland.
Tel +353 61 472622
Fax +353 61 472642

***Supplier:**

BÜCHI Labortechnik AG
Meierseggsstrasse 40
CH - 9230 Flawil
Telephone: +41 71 394 63 63
FAX: +41 71 394 65 65
Email: buchi@buchi.com
Internet: www.buchi.com

***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 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

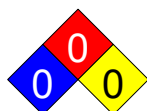
***Hazard pictograms** Void

***Signal word** Void

***Hazard statements** Void

***Classification system:**

***NFPA ratings (scale 0-4)**



Health = 0

Fire = 0

Reactivity = 0

3 Composition/Information on ingredients

***Chemical characterization: Mixtures**

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

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***Dangerous components:** Void

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 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:** 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**

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:**

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

***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:** None.

***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 section 7.

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***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:**

The usual precautionary measures for handling chemicals should be followed.

***Breathing equipment:** Not required.

***Protection of hands:**

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:**



Goggles recommended during refilling.

9 Physical and chemical properties

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

***General Information**

***Appearance:**

Form: Fluid

Color: According to product specification

***Odor:** Characteristic

***Odor threshold:** Not determined.

***pH-value at 20 °C:** 4

***Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C

***Flash point:** Not applicable.

***Flammability:** Not applicable.

***Decomposition temperature:** Not determined.

***Ignition temperature:** Product is not selfigniting.

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

***Explosion limits:**

Lower: Not determined.

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Upper:	Not determined.
*Vapor pressure at 20 °C:	23 hPa
*Density:	Not determined.
*Relative density	Not determined.
*Vapor density	Not determined.
*Evaporation rate	Not determined.
*Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
*Partition coefficient (n-octanol/water):	Not determined.
*Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
*Solvent content:	
Water:	99.0 %
Solids content:	1.1 %
*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.

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 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.

- *Carcinogenic categories**

- *IARC (International Agency for Research on Cancer)**

CAS: 7774-29-0 mercury diiodide

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- *NTP (National Toxicology Program)**

None of the ingredients is listed.

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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:**
 Water hazard class 1 (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.
- *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.

14 Transport information

- | | |
|--|-----------------|
| *UN-Number | Void |
| *DOT/TDG, ADR, IMDG, IATA | Void |
| *UN proper shipping name | Void |
| *DOT/TDG, ADR, IMDG, IATA | Void |
| *Transport hazard class(es) | Void |
| *DOT/TDG, ADR, IMDG, IATA | Void |
| *Class | Void |
| *Packing group | Void |
| *DOT/TDG, ADR, IMDG, IATA | Void |
| *Environmental hazards: | Not applicable. |
| *Special precautions for user | Not applicable. |
| *Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |
| *UN "Model Regulation": | Void |

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.

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***SARA Section 313 (specific toxic chemical listings)**

CAS: 7774-29-0	mercury diiodide
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***TSCA (Toxic Substances Control Act)**

All components have the value ACTIVE.

***MAK (German Maximum Workplace Concentration)**

CAS: 7774-29-0	mercury diiodide	3B
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***GHS label elements** Void

***Hazard pictograms** Void

***Signal word** Void

***Hazard statements** Void

***National regulations:**

***Water hazard 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 SDS:** Health and Safety

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

***Date of the latest revision of the safety data sheet** 04/10/2025 / 8

***Abbreviations and acronyms:**

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

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

CA