

pH4 Buffer Solution**1. Identification of the substance/preparation and of the company/undertaking****1.1 Product Identifier**

Trade Name: pH4 Buffer Solution

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Reagent for water analysis

1.3 Details of the supplier of the safety data sheetCompany: Complete Pool Controls Ltd
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Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081

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E-mail: sales@cpc-chemicals.co.uk**1.4 Emergency Telephone**

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 3712 229084 (outside of office hours)

2. Hazard Identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Not applicable

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not applicable

Most important adverse effects

Human Health: See section 11 for toxicological information.

Physical & Chemical Hazards: See section 9 for toxicological information.

Potential environmental effects: See section 12 for toxicological information.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

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 version

Prevention P102 Keep out of reach of children
P262: Do not get in eyes, on skin, or on clothing
P280: Wear protective gloves/protective clothing/eye protection/face protectionResponse P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P301+312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

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2. Hazard Identification

Storage P402+404: Store in a dry place. Store in a closed container
P420: Store away from other materials

2.3 Other Hazards No other information is available.

3. Composition/information on ingredients

3.1 Mixture

Mixture of substances listed below with non-hazardous additions

Chemical Name	CAS No:	EC No	CLP Classification	%
Potassium Biphthalate	2809-21-4	212-889-4	Not Classified	1 - 2%
Fuchsin acid	3244-88-0	221-816-5	Not Classified	<0.1%
Mercuric Chloride	7487-94-7	231-299-8	H300; H310; H314; H341; H361; H362; H400;H410	<0.1%

4. First Aid measures

4.1 Description of first aid measures

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult give oxygen. Get medical attention if necessary

In case of skin contact: Remove all contaminated clothes and footwear immediately. Wash affected areas thoroughly with soap and water for at least 15 minutes. Get medical attention if necessary.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if necessary.

If swallowed: Do not induce vomiting without medical advice; wash mouth with water and give plenty of water to drink. Get medical attention if necessary.

4.2 Most important symptoms and effects, both acute and delayed

If inhaled: May cause respiratory tract irritation. May be harmful if inhaled
In case of skin contact: May cause skin irritation. May be harmful if absorbed through the skin
In case of eye contact: May cause eye irritation.
If swallowed: May cause digestive tract irritation. May be harmful if swallowed

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat Symptomatically.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment,
Unsuitable extinguishing media: None known

5. Fire fighting measures

5.2 Special hazards arising from the substance or mixture

Specific Hazards: Product is not flammable

5.3 Advice for fire-fighters

PPE for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep unnecessary people away and deny entry. Restrict access until clean-up completed. Clean up to be conducted by trained personnel only.

6.2 Environmental precautions

Environmental precautions: Do not allow to enter sewers surface or ground water.

6.3 Methods and materials for containment and cleaning up

Cleaning up: Absorb with a liquid binding material (sand, diatomite, universal binders). Dispose of contaminated material as waste according to item 13.

Further information: Treat recovered material as described in the section "Disposal considerations"

6.4 Reference to other sections

Other sections: For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Safe Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin or eyes.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area.

7.2 Conditions for safe storage, including any incompatibilities.

Storage: Store in original, tightly closed container

Fire protection: No special measures required

Further information: Store in cool well ventilated area.

Common storage: Keep away from children. Keep away from food/drink /animal feeding stuffs.

7.3 Specific end uses

Specific use(s): No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Mercury inorganic compounds

CAS:7732185

	TWA	VME	STEL	MAC	VLAD	
Belgium	0.025mg/m ³	0.1mg/m ³	-	-	-	(as Hg)
France	-	0.1mg/m ³	-	-	-	(as Hg)
Germany		0.1mg/m ³	-	-	-	(as Hg) skin notation
Malaysia	0.025mg/m ³	-	-	-	-	(as Hg)
Netherlands	-	-	0.025mg/m ³	0.05mg/m ³	-	
Russia	0.005mg/m ³	-	-	-	-	(aerosol as Hg)
Spain	-	-	-	-	0.025mg/n	(as Hg)

8.2 Exposure controls

Engineering measures Refer to protective measures listed in sections 7 and 8.

General Information: Use adequate ventilation to keep airborne concentrations low.

Personal protective equipment

Respiratory protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European standard EN149.

Use a NIOSH/MSHA or EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hand protection Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Eye protection Wear tightly fitted safety goggles approved to standard EN 166. Provide eye station

Skin and body protection Protective clothing with elasticated cuffs and closed neck.

Environmental exposure controls

General advice: Dispose of in accordance with all applicable local and national regulations,

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Red
pH @ 20°C:	4
Boiling Range	100°C
Relative density:	1.0 kg/l
Flash point	Does not ignite
Water solubility:	completely miscible.

9.2 Other Information No further information

10. Stability and reactivity**10.1 Reactivity**

Reactivity Stable under normal conditions

10.2 Chemical stability

Advice: No decomposition if stored and applied as directed

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known

10.4 Conditions to avoid

Conditions to avoid Have not been reported

10.5 Incompatible materials

Materials to avoid Strong oxidising agents.

10.6 Hazardous decomposition products

Haz. Decomp. products None

11. Toxicological Information**11.1 Information on toxicological effects****Primary irritant effect:**

on the skin: Irritant to skin and mucous membranes

on the eye: Irritating effect on eyes

Sensitization: No sensitizing effects known.

Local Effects No data is available on the product itself

Long Term Toxicity: None

Further information

Other information: The product shows the following dangers according to the calculation method of the general Eu classification guidelines for preparations as issued in the latest version:
Irritant

12. Ecological Information**12.1 Toxicity**

Toxicity Minimum hazard if well diluted with water

12.2 Persistence and degradability

Persistence and degradability No information available

12.3 Bioaccumulative potential

Bioaccumulative potential No information available

12.4 Mobility in soil

Mobility in soil No information available

12.5 Results of PBT and PvB assessment

PBT and PvB No information available

12.6 Other adverse effects

Other adverse effects No information available

13. Disposal Considerations

13.1 Waste treatment methods

Product:	Disposal should be in accordance with local or national regulations
Contaminated packaging:	Disposal should be in accordance with local or national regulations. Must not be disposed of together with household garbage. Do not allow the product to reach the sewage system.
European Waste Catalogue No:	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information

Not classified as hazardous for transportation.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

15.2 Chemical Safety Assessment

No information available

16. Other information

Full text of H-statements referred to under sections 2 and 3

H300;	Fatal if swallowed
H310:	Fatal in contact with skin
H314:	Causes severe skin burns and eye damage
H341:	Suspected of causing genetic defects
H361:	Suspected of damaging fertility or the unborn child
H362:	May cause harm to breast-fed children
H400:	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects

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Indicates updated section.