

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

1.1 Product Identifier

Trade Name: ORP 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 sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081

Fax: +44 (0) 8712 229083

E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulations

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

This product does not need to be labelled in accordance with EC Regulations and Directives

Precautionary statements: P280 Wear protective gloves/ eye and face protection
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3 Other Hazards

No other information available

3. Composition/information on ingredients

3.2 Mixture

A mixture of the chemicals listed below with non hazardous additions

Quinhydrone

CAS-No.	EC-No.	Index-No.	Amount %	CLP Phrases
106-34-3	203-387-6		>0.1 <5%	Acute Tox 3 H301; Skin Irrit 2 H315; Eye Irrit 2 H319; STOT SE H335

4. First Aid measures

4.1 Description of first aid measures

If inhaled: : Remove to fresh air

[Cont...]

4. First Aid measures

4.1 Description of first aid measures

- If inhaled: Remove to fresh air
- In case of skin contact: Wash affected area with plenty of water
- In case of eye contact: Rinse immediately with plenty of water.
- If swallowed: Clean mouth with water and drink afterwards plenty of water. In severe cases obtain medical attention

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and Effects: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat Symptomatically.

5. Fire fighting measures

5.1 Extinguishing media:

- Suitable media: Water, powder, foam, CO₂
- Unsuitable media: No information available.

5.2 Special hazards arising from the substance or mixture

Specific Hazards: Non combustible

5.3 Advice for fire-fighters

Protective equipment In the event of fire, wear self-contained breathing apparatus.
Wear appropriate body protection (full protective suit).

Further Information: No further information

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use appropriate personal protective equipment as detailed in Section 8

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Cleaning up Wipe up small amounts with absorbent material.

6.4 Reference to other sections For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Keep container tightly closed. Use personal protective equipment.

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

7.2 Conditions for safe storage, including any incompatibilities.

- Storage: Store away from direct sunlight
- Containers: Keep container tightly closed
- Protection against fire : Normal measures for preventive fire protection

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7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities.

Further information Store at room temperature (15°C - 25°C)

7.3 Specific end uses

Specific use(s) No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Regulatory Basis: Not regulated

8.2 Exposure controls

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

Personal protective equipment

Respiratory protection Required if vapours or aerosol are released.
Work under hood

Hand protection Protective gloves Rubber or plastic recommended

Eye protection Goggles or face mask

Skin and body protection: n/a

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Liquid
Colour: colourless
Odour: odourless

pH @ 20°C: 4
Flash point: n/a
Density @ 20°C: ca. 1.01 g/cm³
Water solubility: completely miscible.
Explosive properties: Product is not explosive.
Oxidising properties: Product is not an oxidiser

9.2 Other Information No further information available

10. Stability and reactivity

10.1 Reactivity

Reactivity No information available.

10.2 Chemical stability

Chemical stability No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: No information available.

10.4 Conditions to avoid

Conditions to avoid Do not heat above boiling point

[Cont...]

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10. Stability and reactivity

10.5 Incompatible materials

Materials to avoid The generally known reaction partners of water

10.6 Hazardous decomposition products

Haz. Decomp. products: Stable under recommended storage conditions.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity Quantative data on the toxicity of this product is not available

Primary Irritant effect

On the skin: No irritant effect

On the eye: No irritant effect

Sensitization: No sensitizing effects known

Other relevant toxicity information:

Further Information: Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances, when the product is handled

Additional data applicable to partial component

The following applies to quinhydrone as the pure substance

LD50 Oral 225 mg/kg (rat)

12. Ecological Information

12.1 Etoxicity (in water)

Acute Toxicity Quantative data on the etoxicity of this product is not available

12.2 Persistence and degradability

Persistence and degradability No data available

12.3 Bioaccumulative potential

Bioaccumulative potential No data available

12.4 Mobility in soil

Mobility in soil No data available

12.5 Results of PBT and PvB assessment

PBT and PvB No data available

12.6 Other adverse effects

Other adverse effects No data available

Additional data applicable to partial component

The following applies to quinhydrone as the pure substance

Aquatic Toxicity Highly toxic for aquatic organisms

Species	Test	Value	Units
Daphnia	EC50	0.4	mg / l
Fish	LC50	5	mg / l

Do not flush into surface water or sanitary sewer system

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13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment ,dispose to an authorised waste collection point

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

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

H302 Harmful if swallowed

H400 Very Toxic to acuatic organisms

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Rev 4

Indicates updated section