

SAFETY DATA SHEET
Revision 6

ORP / Redox Buffer Solution

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

1.1 Product Identifier

Trade Name: ORP / Redox 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) 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

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

Iron Sulphate

CAS-No.	EC-No.	Index-No.	Amount %	CLP Phrases
7720-78-7	231-753-5		25%	Acute Tox 4 H302; Skin Irrit 2 H315; Eye Irrit 2 H319

Iron trichloride

7705-08-0	231-729-4		2.5 - 10%	Eye Dam.1, H318; Acute Tox 4 H302; Skin Irrit 2 H315
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Sulphuric Acid

7664-93-9	231-639-5		2.5 - 10%	Skin Corr. 1A, H314
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4. First Aid measures

4.1 Description of first aid measures

- If inhaled: : Remove to fresh air. In case of unconsciousness place patient stably in side position for transportation.
- In case of skin contact: Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if discomfort continues.
- In case of eye contact: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. If symptoms persist get medical attention.
- If swallowed: Do not induce vomiting; call for medical help immediately. Rinse mouth thoroughly with water and give large amounts of water to drink. Never give anything by mouth to an unconscious person.

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. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable media: No information available.

5.2 Special hazards arising from the substance or mixture

Specific Hazards: The product is not flammable

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: Dilute with plenty of water. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Cleaning up Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

7.2 Conditions for safe storage, including any incompatibilities.

Storage: Store away from direct sunlight

Keep away from children

Protection against fire : Normal measures for preventive fire protection. Store at room temperature.

Further information Ensure good ventilation / exhaustion

7.3 Specific end uses

Specific use(s) No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

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

General Information: Use in a well ventilated area. Never eat, drink or smoke in work areas. Practise good personal hygiene after handling this material.

Personal protective equipment

Respiratory protection Wear a dust mask. Self-contained breathing apparatus must be available in case of emergency.

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 safety glasses approved to standard EN 166. Provide eye station

Skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact.

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: colourless

Odour: odourless

pH @ 20°C: n/a

Boiling Range: 100°C

Flash point: Does not ignite

Density @ 20°C: ca. 1.01 g/cm³

Water solubility: completely miscible.

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 Extremes of temperature and sunlight

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: Irritant to the skin and mucous membranes

On the eye: Irritating effect on the eyes

Sensitization: No sensitizing effects known

Other relevant toxicity 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 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

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

14.1 UN Number	1760
14.2 UN proper shipping name	CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID, FERRIC CHLORIDE)
14.3 Transport hazard class(es)	
Class	8
Classification Code	C1
Hazard label	8
Transport Category	80
EMS	F-A, S-B
14.4 Packaging Group	II
14.5 Environmental hazards	
Classified as environmentally hazardous: ADR	No
Labeling according to 5.2.1.8 RID	No
Labeling according to 5.2.1.6.3 IMDG	No
Classification as environmentally hazardous according to 2.9.3 IMDG	No
Classified as "P" according to 2.10 IMDG	No
14.6 Special precautions for user	
Note:	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
IMDG:	Not applicable

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
H314 Causes severe skin burns and eye damage

16. Other information

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

H315 Causes skin irritation

H318 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.

█ Indicates updated section