Complete Pool Controls

Cleaning Solution

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

1.1 Product Identifier

Trade Name: Cleaning Solution

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

At this time we do not have information on identified uses or restrictions

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

Hazard Class	Hazard Category	Hazard Statements
Skin Corrosion	Category 1B	H314
Specific target organ toxicity-	Category 3	H335

For the full text of the H statements mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxilogical information
Physical & Chemical Hazards: See section 9 for physicochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:

Signal word: Danger

Hazard statements:
H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation

Precautionary statements:
P280: Wear protective gloves/protective clothing/eye protection/face protection
P303+361+353: IF ON SKIN (or hair):Remove/Take off immediately all contaminated clothing. Rinse skin with water
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+310: If exposed or concerned: Immediately call a POISON CENTRE or doctor/physician

Hazardous components which must be listed on the label: Hydrochloric acid

2.3 Other Hazards No other information is available

3. Composition/information on ingredients

3.1 Mixture

Chemical nature: Aqueous solution

A mixture of the chemicals listed below with non-hazardous ingredients

hydrochloric acid				
Index-No:	Cas No:	EC No:	%	CLP Phrases
017-002-01-X	7647-01-0	231-595-7	0.30%	H290:H314;H335
Pepsin (1200 E/g)				
-	9001-75-6	-	1%	H315:H319:H334:H335

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: In case of accident by inhalation; remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation appears seek medical advice

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed , do not induce vomiting - seek medical advice. If a person vomits when lying on his back place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects: Corrosive effects

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable media: No information available

5.2 Special hazards arising from the substance or mixture

Specific Hazards : Fire may cause evolution of Hydrogen chloride gas
Gives off hydrogen by reaction with metals

5.3 Advice for firefighters

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

Further Information: Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise -with a risk of bursting.
Supress (knock down) gases/vapours/mist s with a water spray jet.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. For personal protection see Section 8.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration
If the product contaminates rivers and lakes or drains - inform respective authorities.
If material reaches soil inform authorities responsible for such cases.

6.3 Methods and materials for containment and cleaning up

Cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders)
Keep in suitable closed containers for disposal.

Further Information: Treat recovered material as described in the section 'Disposal considerations'

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: Handle open container with care. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

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 end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities.

Storage areas: Keep in an area equipped with acid resistant flooring.

Containers: Suitable materials: Glass,Polypropylene polyethylene.
Unsuitable materials: Metals

Fire and explosion: The product is not flammable. Gives off hydrogen by reaction with metals. Risk of explosion.

Further information: Keep container tightly closed. Keep in a well-ventilated place. Store in a cool place.

Common storage: Keep away from food, drink and animal feedstuffs. Corrosive in contact with metals. Materials to avoid sodium hypochlorite, alkalis.

German storage class: 8B: Corrosive substances

7.3 Specific end uses No information available

8. Exposure control/personal protection

8.1 Control parameters

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

Hydrochloric acid	**CAS: 7647-01-0**	**ppm**		**mg/m^3**	
WEL (Great Britain)	Short-term Exposure Limit (STEL)	10ppm		15 mg/m^3	Indicative
ELV (EU)	Time Weighted Average (TWA):	5ppm		8 mg/m^3	
EH40 (WELS) UK	Time Weighted Average (TWA):	1ppm		2 mg/m^3	Gas and aerosol mists
EH40 (WELS) UK	Short-term Exposure Limit (STEL)	5ppm		8 mg/m^3	

8.2 Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection	Use respirator with appropriate filter if vapours or aerosol are released Required, if exposure limit is exceeded Combination filter: E-P2
Hand protection	Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374. The glove material has to be impermeable to the product/the substance/preparation. Take note of the information given by the producer concerning permeability, break through times, and of special and of special working conditions (mechanical strain, duration of Protective gloves should be replaced at first sign of wear.
Eye protection	Wear tightly fitting safety goggles approved to standard EN 166.
Skin and body protection	Acid resistant protective clothing

Environmental exposure controls

General advice:	Do not flush into surface water or sanitary sewer systems Avoid subsoil penetration If the product contaminates rivers and lakes or drains inform respective authorities. If the product reaches soil inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Colourless
Odour:	Odourless
pH @ 20^{o}C:	9
Boiling point:	ca. 100^{o}C
Melting point:	ca. 0^{o}C
Flash point:	not applicable
Density @ 20^{o}C:	1.15 - 1.17g/cm^3
Water solubility:	Completely soluble
Ignition temperature:	not applicable
Viscosity, kinematic:	like water
Explosive properties:	Not explosive

9.2 Other Information No further information available

10. Stability and reactivity

10.1 Reactivity

Reactivity — This product is a very reactive substance that can react with many inorganic and organic compounds.

10.2 Chemical stability

Chemical stability — No decomposition if stored and applied as directed

10.3 Possibility of hazardous reactions

Hazardous reactions: — Hydrogen, by reaction with metals, Explosive properties; alkalines

10.4 Conditions to avoid

Conditions to avoid — No information available

10.5 Incompatible materials

Materials to avoid — Metals, Amines, flourines, chlorites, sodium hypochlorite, alkalines, cyanides, Strong oxidising agents

10.6 Hazardous decomposition products

haz. decomp. products — Hydrogen chloride gas

11. Toxilogical Information

11.1 Information on toxilogical effects

Hydrochloric acid				**7647-01-0**
Acute dermal toxicity	LD50	>5,040	mg/kg	Rabbit

Primary Irritant effect

On the skin: Rabbit — Corrosive effects

On the eye: Rabbit — Very corrosive — Risk of serious damage to eyes

Sensitization: maximisation test — not sensitizing — guinea pig

Other relevant toxicity:

All numerical values for acute toxicity are calculated on the pure substances.

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach

Handle in accordance with g Handle in accordance with good industrial hygiene and safety practise.

12. Ecological Information

12.1 Toxicity

Acute Toxicity

Hydrochloric acid				**7647-01-0**
	Species:	Value :	Time:	Value:
Fish	Oncorhychus mykiss	LC50	96h	7.45 mg/l
Daphnia	Daphnia magna	EC50	48h	0.492 mg/l
Algae	Pseudokirchneriella subcapitata	EC50	72h	0.78 mg/l

12.2 Persistence and degradability

Biogradability — Inorganic product which is not removabe from water by biological processes

12.3 Bioaccumlative potential — Bioaccumulation is not expected

12.4 Mobility in soil — Not expected to absorb in soil

12.5 PBT and PvB assessment — Not classified vPvB substance: Non-classified PBT substance

12.6 Other adverse effects

All numerical values for ecotoxicity effects are calculated on the pure substances.

Harmful effects to aquatic organisms due to pH shift

Netralization is normally necessary before waste water is discharged into water treatment plants.

Do not flush into surface water or sanitary water system

13. Disposal Considerations

13.1 Waste treatment methods

Product:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
Contaminated packaging:	Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
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

14.1 UN Number UN1789

14.2 UN proper shipping name

UN proper shipping name ADR/RID/IMDG: Hydrochloric Acid

14.3 Transport hazard class(es)

ADR / RID Class	8
(Label, classification code; Hazard ID; Tunnel	8;C1;80; (E)
IMDG Class	8
(Labels; EmS)	8, F-A,S-B

14.4 Packaging Group

Packing Group ADR/RID/IMDG: II

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR/RID/IMDG: No

Classification as environmentally hazardous according to 2.9.3 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.

UK ISR: hydrochloric acid. Annual reporting level threshold; 10,000kg

Regulatory List	Notification	Notification No
AICS	YES	
DSL	YES	
INV (CN)	YES	
ENCS (JP)	YES	(1) - 215
ISHL (JP)	YES	(1) - 215
TSCA	YES	
EINECS	YES	231-595-7
KECI (KR)	YES	97-1-203
KECI (KR)	YES	KE-20189
PICCS (PH)	YES	

15.2 Chemical Safety Assessment

No information available

16. Other information

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

H314	Causes severe skin burns and eye damage
H355	May cause respiratory respiration

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.