

Hydrochloric Acid 10 - <25%

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

1.1 Product Identifier

Trade Name: Hydrochloric Acid
 Index No: 017-002-01-X
 CAS No: 7647-01-0
 EC No: 231-595-7
 Registration No: 01-2119484862-27-xxxx

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

Uses: pH adjustment and cleaning of swimming pools & Spas

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
Corrosive to metals	Category 1	H290
Skin Irritation	Category 2	H315
Eye Irritation	Category 2	H319
Specific target organ toxicity- single exposure	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 toxicological 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

Trade Name: Hydrochloric Acid 10 - <25%

2. Hazard Identification

H315 Causes skin irritation.
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statements:

P260: Do not breathe dust/ mist/ vapours/ spray.

P234: Keep only in original container.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P309+P311: If exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water / shower

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

2.3 Other Hazards No other information is available

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Aqueous solution

hydrochloric acid

Identification Numbers	Amount %	Hazard Class	Hazards
Index-No: 017-002-01-X		Met Corr.1	H290
Cas No: 7647-01-0	>=10 - <=25	STOT SE3	H335
EC No: 231-595-7		Skin Corr 1B	H314

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.

4. First Aid measures

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: Irritant effects, Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.

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. The product itself does not burn.

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: Fire may cause evolution of Hydrogen chloride gas

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.
Suppress (knock down) gases/vapours/mists 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. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Flush away residuals with plenty of water.
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**

Advice on safe handling: Handle open container with care. Ensure adequate ventilation. Avoid formation of aerosol.. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. 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. Avoid contact with the skin and eyes. Do not breathe vapours or spray mist.

7.2 Conditions for safe storage, including any incompatibilities.

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

Containers Store in original container.

Fire and explosion: The product is not flammable. Normal measures for preventive fire protection.

Further information: Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Common storage: Keep away from food, drink and animal feeding stuffs. Incompatible with: Organic peroxides Oxidizing and spontaneously flammable products alkalis Metals.

7.3 Specific end uses

Specific use(s) No information available

8. Exposure control/personal protection**8.1 Control parameters**

Component:	hydrochloric acid	CAS No:	7647-01-0
List	Value type:	Value:	Value: Remarks
EU ELV	Short Term Exposure Limits (STEL)	10 ppm	15 mg/m ³ Indicative
EU ELV	Time Weighted Average (TWA):	5 ppm	8 mg/m ³ Indicative
UK. EH40	Time Weighted Average (TWA):	1 ppm	2 mg/m ³ Gas and aerosol mists
EH40 WEL	Short Term Exposure Limit (STEL)	5 ppm	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 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 contact).
Protective gloves should be replaced at first sign of wear.

8. Exposure control/personal protection**8.2 Exposure controls****Personal protective equipment**

Hand protection	Material:	Breakthrough time	Glove thickness
	butyl rubber	>= 8 h	0.5mm
	Polyvinylchloride	>= 8 h	0.5mm
	Flourinated rubber	>= 8 h	0.4mm
	Nitrile rubber	>= 8 h	0.35mm
	Polychloropene	>= 8 h	0.5mm

Eye protection Tightly fitting safety goggles

Skin and body protection Acid resistant protective clothing

Environmental exposure controls

Do not flush into surface water or sanitary sewer systems

If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form:	Liquid
Colour:	Colourless to yellowish
Odour:	Stinging
pH @ 20°C:	< 1
Boiling point:	>100 ° C
Vapour pressure:	23 hPa (20°C)
Density @ 20°C:	1.05 - 1.12g/cm ³
Water solubility:	Completely soluble

9.2 Other Information No further information available

10. Stability and reactivity**10 Reactivity**

Reactivity No decomposition if stored and applied as directed

10 Chemical stability

Chemical stability Stable under normal conditions.

10 Possibility of hazardous reactions

Hazardous reactions: Hydrogen, by reaction with metals.

10 Conditions to avoid

Conditions to avoid No information available

11 Incompatible materials

Materials to avoid Bases, Metals, Alkali metals, hydrides, sodium hypochlorite

11 Hazardous decomposition products

Haz. Decomp. products: Hydrogen chloride gas

11. Toxicological Information

11 Information on toxicological effects

Acute Toxicity	hydrochloric acid		7647-01-0
	Value type	Value	Species
	Dermal LD50	5,010 mg/kg	rabbit

Irritation **Skin:** Result -corrosive effects (rabbit)
Eyes: Result - corrosive effects (rabbit)
 Risk of serious damage to eyes.

Sensitisation: Result : not sensitizing (guinea pig) (Maximisation Test)

12. Ecological Information

12 Toxicity

Acute Toxicity	Value Type	Exposure:	Value	Species:
Fish	LC50	96h	7.45 mg/l	Oncorhynchus mykiss
	LC50	96h	24.6 mg/l	Lepomis macrochirus
Daphnia	EC50	48 h	0.492 mg/l	Daphna magna
Algae	EC50	72h	0.78 mg/l	Pseudokirchneriella subcapitata

12 Persistence and degradability

Persistence and degradability Inorganic product which is not removable from water by biological processes

12 Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is not expected log Pow <1

12 Mobility in soil

Mobility in soil Not expected to absorb on soil

13 Results of PBT and PvB assessment

Results of PBT and PvB Not classified

13 Other adverse effects

All numerical values for ecotoxicity effects are calculated on the pure substances.
 Harmful effects to aquatic organisms due to pH shift
 Neutralization is normally necessary before waste water is discharged into water treatment plants.
 Avoid subsoil penetration
 Do not flush into surface water or sanitary water system

13. Disposal Considerations

13 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 thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

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 UN Number	1789
14 UN proper shipping name	
ADR/RID/IMDG	Hydrochloric Acid
14 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 Packaging Group	
ADR/RID/IMDG	III
15 Environmental hazards	
Labelling according to 5.2.1.8 ADR/RID/IMDG:	No
Classification as environmentally hazardous according to 2.9.3 IMDG:	No
15 Special precautions for user	
Note:	Not applicable
15 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
IMDG:	Not applicable

15. Regulatory information**15 Safety, health and environmental regulations/legislation specific for this substance or mixture.**

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

15 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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