

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

### 1.1 Product Identifier

Trade Name: Hydrochloric Acid 28%  
 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: At this time we do not have information on identified uses  
 Restrictions: At this time we do not have information on use 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](mailto: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

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Corrosive to metals	Category 1		H290
Skin Corrosion	Category 1B		H314
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  
 H314 Causes severe skin burns and eye damage  
 H335 May cause respiratory irritation

**Trade Name:** Hydrochloric Acid 25 - 36%

## 2. Hazard Identification

Precautionary statements:

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

Response: 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

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 Substances

Chemical nature: Aqueous solution

Chemical Name	Identification Numbers	Hazard Class	Amount %
hydrochloric acid	Index-No: 017-002-01-X	Met Corr.1	
	Cas No: 7647-01-0	STOT SE3	>=25 - <=36
	EC No: 231-595-7	Skin Corr 1B	

## 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: Corrosive effects

Effects: No further information available

### 4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically  
No further information available

## 5. Fire fighting measures

### 5.1 Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and  
Unsuitable extinguishing media: No information available

### 5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: 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.  
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.  
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

Methods and materials for containment and 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.

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## 7. Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas :	Keep in an area equipped with acid resistant flooring.
Containers	Suitable materials for containers: glass Polypropylene polyethylene. Unsuitable materials: Metals.
Advice on protection against 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.
Advice on 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

Specific use(s) No information available

## 8. Exposure control/personal protection

### 8.1 Control parameters

<b>Component: hydrochloric acid</b>		<b>CAS No: 7647-01-0</b>	
Regulatory List:	Value type:	Value:	Value: Remarks
EU ELV	Short Term Exposure Limits (STEL)	10 ppm	15 mg/m <sup>3</sup> Indicative
EU ELV	Time Weighted Average (TWA):	5 ppm	8 mg/m <sup>3</sup> Indicative
UK. EH40	Time Weighted Average (TWA):	1 ppm	2 mg/m <sup>3</sup> Gas and aerosol mists
EH40 WEL	Short Term Exposure Limit (STEL)	5 ppm	8 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Engineering measures

Refer to protective measures listed in sections 7 and 8

#### Personal protective equipment

##### Respiratory protection

Advice: Use respirator with appropriate filter if vapours or aerosol are released  
Required, if exposure limit is exceeded  
Combination filter: E-P2

##### Hand protection

Advice: 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, Protective gloves should be replaced at first sign of wear.

Material: butyl rubber, Nitrile rubber, Polyvinylchloride, Fluorinated rubber, Polychloroprene  
Gloves >= 8 h

Eye protection Advice: Tightly fitting safety goggles

##### Skin and body protection

Advice: 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 to yellowish
Odour:	Stinging
pH @ 20°C:	,0.1
Solidification point	-40 ° C
Boiling point:	ca. 90 ° C
Flash point:	not applicable
Flammability (solid, gas)	does not ignite
Upper explosion limit:	not applicable
Lower explosion limit:	not applicable
Vapour pressure:	21.8 hPa
Density @ 20°C:	1.15 - 1.17g/cm <sup>3</sup>
Water solubility:	Completely soluble
Partition coefficient:n-octanol/water:	-0.25 log Pow
Ignition temperature:	not applicable
Viscosity, kinematic:	1.74 mPa.s                      20 ° C
Explosive properties:	Not explosive

**9.2 Other Information**                      No further information available

**10. Stability and reactivity****10.1 Reactivity**

Advice:                      This product is a very reactive substance that can react with many inorganic and organic c

**10.2 Chemical stability**

Advice:                      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	sodium hypochlorite	chlorites
	Amines	flourines	alkalines
	cyanides	Strong oxidising agents	

**10.6 Hazardous decomposition products**

Hazardous decomposition products:                      Hydrogen chloride gas

**11. Toxicological Information****11.1 Information on toxicological effects****Acute Toxicity**

hydrochloric acid		7647-01-0
Value type	Value	Species
Oral LD50	900 mg/kg	rabbit
Dermal LD50	5,010 mg/kg	rabbit

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## 12. Ecological Information

### 12.1 Toxicity

#### Acute Toxicity

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

### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is not expected log Pow <1

### 12.4 Mobility in soil

Mobility in soil Expected to adsorb on soil

### 12.5 Results of PBT and PvB assessment

Results of PBT and PvB Not classified

### 12.6 Other adverse effects

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.  
Do not flush into surface water or sanitary water system

## 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** 1789

**14.2 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**  
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

<b>Regulatory List</b>	<b>Notification</b>	<b>Notification No</b>
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**

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	
H314	Causes severe skin burns and eye damage
H355	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.

**• Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances.

CAS: Chemicals Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

**Rev 3**

Indicates updated section











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