

**TA Minus**

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

**1.1 Product Identifier** TA Minus / TA Reducer

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

Uses: Reduction of Total Alkalinity

**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 Statements
Skin Corr. 1B	H314
STOT. SE3	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: H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

Prevention P405+P102 Store locked up / Keep out of reach of children  
P309+P311 If exposed or if you feel unwell: Call a poison centre or doctor  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P501 - Dispose of contents/container in accordance with national regulations.

**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

	CAS-No.	EC-No.	Index-No.	%	CLP Phrases
Hydrochloric Acid	7647-01-11	231-595-7	017-002-01-X	10 - 25%	Skin Corr 1B H314 : STOT H315

**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. Call a physician immediately
In case of skin contact:	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention
In case of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Call a doctor immediately
If swallowed:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

**4.2 Most important symptoms and effects, both acute and delayed** No information available

**4.3 Indication of immediate medical attention and special treatment needed** Treat symptomatically

**5. Fire fighting measures****5.1 Extinguishing media:**

Suitable media: Use media appropriate to surrounding fire conditions.

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

Specific Hazards : May evolve toxic fumes in fire (Hydrogen Chloride, toxic chlorine compounds).

**5.3 Advice for fire-fighters**

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

Further Information: Collect contaminated fire extinguishing water separately.  
Cool closed containers exposed to fire with water spray.

**6. Accidental release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions: Use personal protective equipment. Provide adequate ventilation.

**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  
Local authorities should be advised if significant spillages cannot be contained

**6.3 Methods and materials for containment and cleaning up**

Small Spill: Absorb on an inert absorbent, transfer to a suitable container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.  
Large Spill: Liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

**6.4 Reference to other sections** For personal protection see section 8

**7. Handling and storage****7.1 Precautions for safe handling**

Personal Keep container tightly closed. Use personal protective equipment. Avoid contact with the skin and the eyes. 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. Provide adequate ventilation.

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

Storage areas : Store at room temperature (15 to 25°C recommended).  
 Containers Keep well closed and protected from direct sunlight and moisture  
 Fire Protection: Normal measures for preventive fire protection  
 Further information : Keep in a well ventilated place. Product is hygroscopic.  
 Common Storage: Keep away from combustible material

**7.3 Specific end uses** No information is available.

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

Component:		CAS No:		
hydrochloric acid		7664-93-9		
List	Type	Form	mg/m <sup>3</sup>	ppm
OES	Long Term	Mist	2	1
	Short Term	Mist	8	5

**8.2 Exposure controls**

**Engineering measures** Fume cupboard required when vapours/aerosol are generated.

**Personal protective equipment**

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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 goggles 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: 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  
 Local authorities should be advised if significant spillages cannot be contained

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

Form: Liquid  
 Colour: colourless  
 Odour: Pungent, Characteristic  
  
 pH @ 20°C: Less than 1  
 Boiling point 101 – 104°C  
 Vapour pressure: Less than 5 at 15°C (measured in millibars)  
 Relative vapour density: 1.04 – 1.12 at 20°C  
 Water solubility: completely miscible.

**9.2 Other Information** No further information

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

Reactivity: Can react violently with oxidising agents liberating chlorine.

**10.2 Chemical stability**

Chemical stability:

Attacks most common metals liberating hydrogen, which can form explosive mixtures with air.

**10.3 Possibility of hazardous reactions**

Hazardous reactions: Gives off hydrogen by reaction with metals. Reacts exothermic with water.

**10.4 Conditions to avoid**

Conditions to avoid: No information available.

**10.5 Incompatible materials**

Materials to avoid: Amines, carbides, hydrides, fluorine, alkali metals, metals, bases, salts of oxyhalogenic acids, aldehydes, sulphides.

**10.6 Hazardous decomposition products**

Haz. Decomp. Products: Hydrogen chloride

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

Toxicity Values: No information available

Primary Irritant effect: On the skin: Causes severe skin burns and eye damage  
On the eyes: Risk of serious damage to eyes

Sensitization: No sensitizing effects known

Carcinogenic: There is no evidence that this substance has any carcinogenic properties.

Mutagenic: No information available

Teratogenicity: No information available

**Other relevant toxicity information:**

Ingestion: Ingestion may cause damage to the gastrointestinal tract. Repeated exposure to low levels may cause erosion of the teeth and ulceration of the nasal septum and gums

Inhalation: Inhalation of mists and vapour will cause irritation of the upper respiratory tract, high concentrations may cause corrosion, pulmonary oedema may occur up to 48 hours after exposure.

**12. Ecological Information****12.1 Toxicity**

<b>Component:</b>	hydrochloric acid	<b>CAS No:</b>	7664-93-9
LC50	25	mg/l	Leuciscus idus
EC50	5	mg/l	Daphnia Magna

**12.2 Persistence and degradability**

Persistence and degradability: Neutralised slowly by natural alkalinity.

**12.3 Bioaccumulative potential**

Bioaccumulative potential: Material does not bioaccumulate.

**12.4 Mobility in soil**

Mobility in soil: Volatile liquid, soluble in water, predicted to have high mobility in soil.

**12.5 Results of PBT and PvB assessment**

PBT and PvB assessment: No data available

**12.6 Other adverse effects**

Harmful effects to aquatic organisms due to pH shift

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

**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**

<b>14.1 UN Number</b>	1789
<b>14.2 UN proper shipping name</b>	HYDROCHLORIC ACID SOLUTION
<b>14.3 Transport hazard class(es)</b>	
Class	8
Classification Code	C1
Hazard label	80
Transport Category	8
EMS	5B
Tunnel Code	E
Special Marking	n/a
LQ	1 Litre
<b>14.4 Packaging Group</b>	II
<b>14.5 Environmental hazards</b>	
Environmentally Hazardous	No
Marine Pollutant	No
<b>14.6 Special precautions for user</b>	Clean up even minor leaks or spills if possible without unnecessary risk
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
IMDG:	IBC02, P001

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.**

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

**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

H335 May cause respiratory irritation

## 16. Other information

### 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.