

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

- **Trade Name:** T A Reducer
- **Other names** Hydrochloric Acid, TA Minus,
- **Manufacturer/Supplier** Complete Pool Controls Ltd, Unit 2, The Park, Stoke Orchard, Bishops Cleeve, Gloucestershire, GL52 7RS.
Tel: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
email: sales@cpc-chemicals.co.uk

2. Hazard Identification

I: Irritant

- **Hazard Information concerning particular hazards for human and the environment**
R36/37/38 Irritating to eyes, respiratory system and skin

3. Composition/information on ingredients

- **Chemical characterization:**
- **Description** Hydrochloric Acid
- **CAS No.** 7647 - 01 - 11
- **EINECS Number:** 231-595-7
- **% Conc.** 10 - 25

4. First Aid measures

- **After inhalation:**
Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid, or complete, seek medical attention.
- **After 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
- **After eye contact:**
Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention
- **After Ingestion:**
Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. Seek immediate medical attention

5. Fire fighting measures

- **Special extinguishing media:**
Select extinguishing agent appropriate to other materials involved. Keep containers and surroundings cool with water spray.
- **Special exposure hazards in fire:**
Hydrogen Chloride
- **Special protective equipment:**
Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

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6. Accidental release Measures

• **Personal Protection**

Wear appropriate protective clothing. Inform others to keep at a safe distance. Do not allow to enter sewerage system.

• **Methods for cleaning:**

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.

For large spillages 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.

7. Handling and storage

• **Handling**

Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use. Unsuitable working materials: metals.

• **Storage**

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and

• **Ventilation**

Good general ventilation. Local exhaust ventilation is required

8. Exposure control/personal protection

• **Exposure control limits :** OES – Hydrogen chloride (gas and aerosol mists)

Long-term: 2mg/m³ (1ppm) Short-term: 8mg/m³ (5ppm) (ILV).

Engineering methods to control or prevent exposures are preferred. Methods could include process enclosure or mechanical ventilation.

As appropriate to the situation and the quantity handled.

• **Ventilation**

Fume cupboard required when vapours/aerosol are generated.

• **Respirator**

Self-contained breathing apparatus required when vapours/aerosols are generated.

• **Hand Protection**

Rubber or plastic gloves. Gloves subject to permeation or any sign of degradation must be removed and replaced immediately.

• **Eye Protection**

Goggles or face-shield.

• **Other Precautions**

Plastic apron, sleeves, boots-if handling large quantities

9. Physical and chemical properties

• Appearance at 20oC	Colourless Liquid
• Odour	Pungent, Characteristic
• Vapour density	1.04 – 1.12 at 20°C
• Vapour Pressure	Less than 5 at 15°C (measured in millibars)
• pH (conc)	Less than 1
• Boiling Point	101 – 104°C
• Melting Point	0 to 67
• Solubility in water	Completely miscible

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10. Stability and reactivity

• **Conditions to avoid**

Attacks most common metals liberating hydrogen, which can form explosive mixtures with air. Can react violently with oxidising agents liberating chlorine.

• **Materials to avoid**

Alkalis, concentrated sulphuric acid, oxidising agents, ammonia, amines.

• **Hazardous decomposition products**

Hydrogen chloride

11. Toxicological Information

• **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.

• **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

• **Skin**

Irritating to skin, eyes and mucous membranes

• **Eyes**

Irritating to eyes

• **Toxicity**

Irritating to mucous membranes

12. Ecological Information

• **Mobility**

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

• **Degradability**

Neutralised slowly by natural alkalinity.

• **Bioaccumulative potential**

Material does not bioaccumulate.

• **Aquatic Toxicity**

Harmful effect on aquatic organisms. Harmful effect due to pH shift. Lethal for fish from 25 mg/l: LC₅₀ (Leuciscus idus): 862mg/l (1N – Solution). For plants, harmless effects begin at 6mg/l. does not cause biological oxygen deficit

• **Remarks**

Adverse ecological effects cannot be excluded in the event of improper handling or disposal

13. Disposal Considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

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14. Transport Information

- **Classification**
- **U N No** 1789
- **Proper shipping name** Hydrochloric Acid Solution
- **Class/division** 8
- **Packing group** II
- **Hazard I D No** 80
- **EADR/RID item No.** 5b
- **Pollutant** May be considered a marine pollutant

15. Regulatory information

- **Product Name** TA reducer
- **Symbol** Irritant
- **Risk phrases**
36/37/38, Irritating to eyes, respiratory system and skin
- **Safety phrases**
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45: In case of accident or if you feel unwell, seek medical advice immediately - show the label if possible
- **Local Regulations**
UK Transport category: 2
Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.