

## Arsenic (III) Standard Solution 1 mg/L

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

Product Name: Arsenic (III) standard solution (1 mg/L As).  
Product number: R-100-61STAS-01  
company: Cogent Environmental Ltd  
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### 2. Composition/information on ingredients

Product name: Arsenic (III) standard 1 ppm (1000 mL)

CAS number: None EC number: None

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Hydrochloric acid	3%	7647-01-0	231-595-7

Symbol: C

R-phrases: R34, 37

Causes burns. Irritating to respiratory system.

Arsenic (III) Chloride <0.1% 7784-34-1 231-595-7

Symbol: T N: Toxic. Dangerous to the environment.

R- Phrases: R23/25-50/53

Toxic by inhalation and if swallowed. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

### 3. Hazards identification

Not classified as dangerous according to EC Directives.

### 4. First aid measures

If swallowed: Wash out mouth thoroughly providing person is conscious. Do not induce vomiting. Seek medical advice.

After eye contact: Irrigate thoroughly with water for at least 15 minutes. If discomfort persists obtain medical attention.

After skin contact: Remove contaminated clothing. Wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Launder clothing before reuse.

If inhaled: Remove individual from contaminated air, rest and keep warm. If breathing is difficult give oxygen and seek medical assistance.

### 5. Fire-fighting measures

Not combustible. May evolve toxic fumes in fire.

Fire fighters should wear self contained breathing apparatus if exposure to fumes is likely.

Use water spray or foam to control fire situation if compatible with other chemical products in the vicinity.

**Arsenic (III) Standard Solution 1 mg/L****6. Accidental release measures**

Wear protective clothing when dealing with spills. Neutralise with sodium bicarbonate. Absorb spills with sand or vermiculite. Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with local regulations.

**7. Handling and storage**

Handling: Change contaminated clothing. Wash hands after working with substance.

Storage: Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices. Solution is acidic and may corrode metals.

**8. Exposure controls and personal protection**

UK Exposure Limits:

Hydrogen Chloride: 8 mg/m<sup>3</sup> Short term (5 ppm) & 2 mg/m<sup>3</sup> long-term (1 ppm) (IVL)  
Arsenic and arsenic compounds (as As): 0.1mg/ m<sup>3</sup> long term. (WEL)

Engineering Controls:

Always use this product with good general ventilation (10-15 changes of air in the room per hour) or preferably in a chemical fume hood. Maintain atmospheric concentrations as low as possible.

Personal Protection:

Avoid all skin and eye contact. Wear protective clothing including safety glasses and rubber or PVC gloves. Never pipette by mouth.

**9. Physical and chemical properties**

Appearance:	Clear colourless Liquid
Boiling point (°C):	100 (approx)
Vapour pressure (mmHg at 20°C):	25 (approx)
Specific Gravity (g/mL):	1.0
Flash Point (°C):	Not flammable
Flammability limits (%):	Not flammable
Solubility in water (g/L):	Completely miscible

Other Properties: pH approx 1. Acidic solution. Will corrode metals. Will produce toxic gases on contact with cyanides, sulphides etc.

**10. Stability and reactivity**

Stable

Substances to be avoided: amines, carbides, hydrides, fluorine, alkali metals, bases, salts of oxyhalogenic acids, aldehydes, sulphides.

**11. Toxicological information**

After ingestion: May cause irritation of mucous membranes in mouth, pharynx, oesophagus and gastrointestinal tract.

After skin contact: May cause irritation.

After eye contact: May cause irritation.

After inhalation of vapours: May cause irritation to the respiratory tract.

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**12. Ecological information**

Harmful effect due to pH shift.

Harmful effect on aquatic organisms. Does not cause biological oxygen deficit.

**13. Disposal considerations**

Contact a licensed professional waste disposal service to dispose of this material. Observe local and national environmental regulations.

**14. Transport information**

This product contains less than 5% of the following ingredient in non-liquid form.

HYDROCHLORIC ACID, GLACIAL, C (corrosive)

UN no: 1789, Class 8

Non – Hazardous for air, road and sea transport.

**15. Regulatory information**

Not classified as dangerous according to EC directives.

**16. Other information**

None

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