

	<b>MSDS</b> Material Safety Data Sheet	Document No.: MSDS007 Version No.: 03 Effective Date: 25 Aug 2011
<b>Arsenic III Standard</b>		

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

Product Name: Arsenic III Standard Solution

Product number: R-300-20STAS-01, R-100-51STAS-01

company: Cogent Environmental Ltd  
Unit 3, Edinburgh House  
Innovation Park  
Cambridge, CB4 0DS  
UK

Telephone: +44 (0) 1223 420311

Email: [info@cogenv.co.uk](mailto:info@cogenv.co.uk)

### 2. Composition/information on ingredients

Product name: Arsenic (III) Standard 20 ppm, Arsenic (III) Standard 1ppm

CAS number: none

EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Hydrochloric acid	2.0%	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	232-059-5
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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, foam or dry chemical to control fire situation if compatible with other chemical products in the vicinity.

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**6. Accidental release measures**

Wear protective clothing when dealing with spills. Absorb spills with sand or vermiculite. Neutralise with sodium bicarbonate. Dispose of in accordance with local regulations. Do not allow to enter drinking water supplies, waste water or soil.

**7. Handling and storage**

Handling: Do not breathe vapour. Do not get in eyes, on skin or clothing. Change contaminated clothing. Wash hands after working with substance. Avoid prolonged or repeated exposure. Do not empty into drains.

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. Do not mix with cyanides or sulphides.

**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): 0.1 mg/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

**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**

No data available.

Do not allow to enter drinking water supplies, waste water or soil.

**13. Disposal considerations**

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

**14. Transport information**

Non – Hazardous for air, sea or road transport.

**15. Regulatory information**

Not classified as dangerous according to EC directives.

**16. Other information**

None

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