

Arsenic III 20 ppm Standard

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

Product Name: Arsenic III Standard Solution (20 mg/L As III)

Product number: R-300-20STAS-01

company: Cogent Environmental Ltd
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UK

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2. Composition/information on ingredients

Product name: Arsenic (III) 20 ppm Standard in 2% Hydrochloric acid

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.

Arsenic III 20 ppm Standard**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/m³ Short term (5 ppm) & 2 mg/m³ long-term (1 ppm) (IVL)

Arsenic and arsenic compounds (as As): 0.1 mg/m³ 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.



MSDS

Material Safety Data Sheet

Document No.: MSDS007
Version No.: 02
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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

This product contains less than 10% of the following ingredient.

HYDROCHLORIC ACID, C (corrosive)

UN no: 1789, Class 8

This product contains less than 0.1% of the following ingredient.

ARSENIC TRICHLORIDE, T (toxic)

UN no: 1560, Class 6.1

Non – Hazardous for air, sea or road transport.

15. Regulatory information

Not classified as dangerous according to EC directives.

16. Other information

None

All information given by the Company is offered in good faith and is believed to the best of our knowledge to be accurate. However this information is offered without warranty representation inducement or licence and the Company does not assume legal responsibility for reliance upon the same.

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