

MATERIAL SAFETY DATA SHEET

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

Product Name: Arsenic (As) (III) Electrolyte concentrate

Product number: R-300-500EAS-01

company: Lab21 Environmental Ltd
184 Cambridge Science Park
Cambridge
CB4 0GA
UK

Telephone: +44 (0) 1223 395450

Fax: +44 (0) 1223 395451

2. Composition/information on ingredients

Product name: As (III) CLAC Electrolyte Concentrate

CAS number: none

EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Acetic acid	7%	64-19-7	200-580-7

Symbol: C

R-phrases: R10, 35

Flammable. Causes severe burns.

3. Hazards identification

Not Hazardous

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

Combustible. Decomposition products include hydrogen chloride fumes. Contact with metals may produce hydrogen gas.

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.

6. Accidental release measures

Wear protective clothing when dealing with spills. Clean up with plenty of water and run to waste, diluting with running water, diluting with running water. 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. Do not mix with cyanides or sulphides.

8. Exposure controls and personal protection

UK Exposure Limits:

Acetic acid: 37 mg/m³ Short term (15 ppm) & 25 mg/m³ long-term (10 ppm) (IVL)

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.

9. Physical and chemical properties

Appearance:	White crystalline powder
Boiling point (°C):	N/A
Vapour pressure (mmHg at 20°C):	N/A
Specific Gravity (g/mL):	N/A
Flash Point (°C):	Not flammable
Flammability limits (%):	Not flammable
Solubility in water (g/L):	Completely miscible

10. Stability and reactivity

Substances to be avoided: bases, aldehydes, alcohols, halogen-halogen compounds, oxidising agents, metals, alkali hydroxides, non-metallic halides, and ethanolamine.

11. Toxicological information

After inhalation of vapours: May cause irritation symptoms in the respiratory tract, may lead to the formation of oedemas.

After ingestion: May cause burns in oesophagus and stomach mouth, may cause gastric spasms, bloody vomiting, dyspnoea.

Possible risk of perforation in the oesophagus and stomach.

After skin contact: May cause burns.

After eye contact: May cause burns.

12. Ecological information

Biological degradable.

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 in non-liquid form.

ACETIC ACID, GLACIAL, C (corrosive)

UN no: 2789, Class 8

Non – hazardous for air, road or sea 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.

Every person dealing with the materials referred to herein does so at his or her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.
