

	<p style="text-align: center;"><b>MSDS</b> Material Safety Data Sheet</p>	<p>Document No.: MSDS026 Version No.: 03 Effective Date: 25 Aug 2011</p>
<p><b>CLAC Electrolyte Solution</b></p>		

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

Product Name: CLAC Electrolyte

Product number: R-100-210CLA-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: CLAC Electrolyte

CAS number: none                      EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Acetic acid	<1%	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**

Non 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.

**6. Accidental release measures**

Wear protective clothing when dealing with spills. Absorb spills with sand or vermiculite. Dispose of in accordance with local regulations.

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**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.

**8. Exposure controls and personal protection**

UK Exposure Limits:

Acetic acid: 37 mg/m<sup>3</sup> Short term (15 ppm) & 25 mg/m<sup>3</sup> 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 is preferable). 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:	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

**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 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.

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

**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.

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**14. Transport information**

Non – hazardous for air, road or sea transport.

**15. Regulatory information**

Not classified as dangerous according to EC directives.

**16. Other information**

None

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