

MATERIAL SAFETY DATA SHEET

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

Product Name: Electrode Conditioning Solution A

Product number: R-300-025ECS-01

company: Lab21 Environmental Ltd
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Cambridge
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UK

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2. Composition/information on ingredients

Product name: Electrode Conditioning Solution A

CAS number: none

EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Sodium Hydroxide Symbol: C R-phrases: R35 Causes severe burns.	4.0%	1310-73-2	215-185-5

3. Hazards identification

Causes burns.

4. First aid measures

If swallowed: Wash out mouth thoroughly with water and give plenty of water to drink. Do not induce vomiting. Seek medical advice.

After eye contact: Irrigate thoroughly with water for at least 15 minutes. 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.

Use extinguisher to suit environment.

6. Accidental release measures

Wear protective clothing when dealing with spills. Absorb spills with sand or vermiculite. Wash site of spillage thoroughly with water and detergent. 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.

8. Exposure controls and personal protection

UK Exposure Limits:

Sodium Hydroxide: 2 mg/m³ Short 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 Liquid
Boiling point (°C):	100 (approx)
Specific Gravity (g/mL):	1.03
Flash Point (°C):	Not flammable
Flammability limits (%):	Not flammable
Solubility in water (g/L):	Completely miscible

Other Properties: pH approx 14 Alkaline solution.

10. Stability and reactivity

Stable

Substances to be avoided: light metals (Formation of: hydrogen), ammonium compounds (Formation of: ammonia), acids.

11. Toxicological information

After ingestion: Risk of perforation in the oesophagus and stomach.

After skin contact: Irritant and caustic effects.

After eye contact: Irritant and caustic effects. Risk of blindness.

After inhalation of vapours: Irritant and caustic effects.

12. Ecological information

Harmful effect due to pH shift.

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.

SODIUM HYDROXIDE SOLUTION, C (corrosive)

UN no: 1824, Class 8

Packaging group III

Volumes typically shipped are within the accepted quantity classification.

15. Regulatory information

Labelling according to EC directives.

Symbol(s): C, Corrosive

R phrases: R34

Causes burns.

S phrases: 26, 37/39, 45

In case of contact with eyes, wash immediately with plenty of water and seek medical advice.

Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

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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