

SECTION 1 - IDENTIFICATION OF PREPARATION

**Product name:**

Electrode Cleaning Solution

**Item ID:**

ECS-A

**Application:**

Electrode cleaning solution for pH and ORP electrodes (applications with proteins)

**Manufacturer Identification:**

Green Air Products, Inc.  
PO Box 1318  
Gresham, OR 97030

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:**

Solution in water

**Chemical composition:**

Hydrochloric acid <1%

SECTION 3 - HAZARD IDENTIFICATION

Irritant

SECTION 4 - FIRST AID MEASURES

**Eye contact:**

Irrigate thoroughly with water. If discomfort persists, obtain medical attention.

**Skin contact:**

Wash off thoroughly with water. Remove contaminated clothing and wash before re-use.

**Ingestion:**

Wash out mouth thoroughly with water and give plenty of water to drink. In severe cases, obtain medical attention.

**Inhalation:**

Remove from exposure.

SECTION 5 - FIRE FIGHTING MEASURES

**Special risks:**

N/A

**Fire extinguisher:**

N/A

**Special fire fighting precautions:**

None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

**In case of accidental spill or release:**

Spread liberally sodium bicarbonate over the spillage.  
If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company.

SECTION 7 - HANDLING AND STORAGE

**Handling:**

Under no circumstances eat or drink while handling this material  
Wash hands and face after working with material

**Storage:**

Store at room temperature (@15°-25° C)  
Protect from direct sunlight & moisture  
Keep container well closed  
Keep away from children

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

As appropriate to quantity handled:

**Respiratory protection:**

Self contained breathing apparatus

**Protective gloves:**

Rubber or plastic

**Eye protection:**

Goggles/face shield

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

**Appearance and odor:**

Pink - Odorless

**Water reactivity:**

Gives an acidic pH value (<1)

**Solubility in water:**

Miscible in any proportion

**Melting point:**

N/A

**Boiling point:**

N/A

SECTION 10 - STABILITY AND REACTIVITY

**Stability:**

Stable

**Substances to be avoided:**

Amines, alkali metals, strong bases, salts of oxyhalogenic acids, sulfuric acid, semimetallic hydrogen compounds, aldehydes

SECTION 11 - TOXICOLOGICAL INFORMATION

**In case of ingestion:**

Damage to mouth, esophagus, gastrointestinal tract. Risk of perforation in the esophagus and stomach.

**In case of inhalation:**

Irritation of mucous membranes.

**In case of eye contact:**

Severe irritation.

**In case of skin contact:**

Irritation

**Further data:**

LD50 (oral-rat) = N/A

No evidence of mutagenic or teratogenic effects.

SECTION 12 - ECOLOGICAL INFORMATION

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention. Toxic for aquatic organisms: harmful effect due to pH shift.

SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste disposal:**

Chemical residues are generally classified as special waste and thus covered by local regulations. Contact authorities or disposal companies for advice.  
In compliance with current regulations.

SECTION 14 - TRANSPORT INFORMATION

UN-No.:

IMO: NR

IATA: NR

IMDG class: NR

Packaging group:

Packaging group:

Correct technical name: Not-Restricted

ADR/RID: N/R

**SECTION 15 - REGULATORY INFORMATION**

**Labeling according to EEC directives:**

R-phrases: 36/37/38 Irritating to eyes, respiratory system and skin.

S-phrases: 26-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**SECTION 16 - OTHER INFORMATION**

Emergency telephone number  
1-800-669-2113