



## Material safety data sheet: Enviolyte A-Anolyte (91/155/EWG)

### Section 1:

Product and company identification  
Trade name: Acidic Anolyte or A-Anolyte

Supplier:  
ENVIOLYTE ? TEL. +46 606060 355 / +45 4692 6060  
www.enviolyte.no - brewery@enviolyte.no

### Section 2:

Composition and information on the ingredients

A-Anolyte may contain active chlorine compounds such as CL<sub>2</sub> and HClO (C.ac in mg/l) in the range of 0,001- 0.09%. The average/standard amount of active chlorine is ~ 0, 05%. The solution contains no compounds as per the regulations for toxic compounds (67/548/EWG)

### Section 3:

Hazards identification

The solution is classified as non dangerous accordingly (88/279/EWG)

Main Hazards:

A-Anolyte in its strongest form (C.ac >500mg/l) may cause irritation to the eyes skin and throat. Where the solution is stored in bottles under no circumstances should anyone try to smell or inhale the evaporations.

Health effects Eyes:

A-Anolyte in its strongest form may cause irritation to the eyes.

Health effects Skin:

A-Anolyte in its strongest form may cause irritation to the skin or open wounds.

Health effects Ingestion:

Swallowing of the solution in its strongest form may cause irritation to the throat and digestive tract.

Health effects Inhalation:

During the generation of the solution particularly its strong form, unless there is adequate ventilation, there may be a build up of fumes which may cause dizziness and nausea.

### Section 4:

First aid Measures

Eye contact:

Where irritation occurs flush with cool fresh water

Skin Contact:

Where irritation occurs wash the skin wash with soap and warm water

Ingestion:

Drink cool fresh water to flush through and dilute

Inhalation:

Remove at once to fresh air if dizziness and nausea persist seek medical attention

### Section 5:

Fire Fighting Measures

There are no special requirements for this solution. It is not flammable

### Section 6:

Accidental Release Measures

Personal precautions:

None

Environmental precautions:

These solutions are biodegradable and have a limited activation period so there are no potential risks to the environment

### Section 7:

Handling and Storage

Handling:

In the area where the solution is being produced there must be good ventilation. Preferably local exhaust ventilation. For those with very sensitive skin it may be advisable to wear gloves.

Storage:

Store in a cool dry ventilated area in sealed plastic containers and ensure the solution is correctly labelled. Shelf life is up to 12 months.

### Section 8:

Personal Protection and Exposure Control

Engineering control procedures:

Where A-Anolyte is generated on site some engineering solutions should be implemented to prevent the build up of fumes particularly if the production facility has inadequate ventilation. Mechanical fume extraction may be necessary in this situation.

Documented process, safety controls and personnel protection where necessary, gloves, mask etc.

Respiratory Protection:

Where there is a high risk to fumes build up due to inadequate ventilation in a processing area a respirator should be worn.

Hand protection:

Where operatives have sensitive skin the strongest solutions may cause irritation and therefore protective gloves should be worn.

Eye and facial protection:

There are no requirements

Body protection:

Normal industrial work wear avoid exposed skin where handling neat strong solution

### Section 9:

Chemical and Physical Properties

Physical state:	Liquid
Colour and Appearance:	Clear liquid (like water)
Odour:	Strong Chlorine odour
Solubility in water:	Completely soluble
PH-values:	2, 0-3, 5
Melting-point:	0oC.
Boiling-point:	100oC.
Fire-focus:	N/A
Flammability:	None
Explosive:	N/A
Density:	app. 1,000 kg.m3
Steam-pressure:	app. 2,330 Pa

### Section 10:

Stability and Reactivity

Stability:

Stable under all normal storage conditions

Materials to avoid:

Very corrosive on metals

Hazardous decomposition products:

None

### Section 11:

Toxicological Information

Acute toxicity:

Not toxic

Irritant-Eyes:

Data for related material suggests this could produce conjunctivitis irritation

Irritant-Skin:

Data for related material suggests this may cause skin irritation

Reproductive and developmental:

None known

Skin contact:

The possibility of allergic sensitisation should be considered

Chronic toxicity/Carcinogens:

None

Human Data:

Inhalation may cause respiratory irritation

### Section 12

Environmental Information

Eco toxicity:

Destroys bacteria, viruses, spores and algae

Degradability and Persistence:

Fully Biodegradable

Bio-accumulation:

None

Mobility:

None

### Section 13

Disposal Procedures

There are no special disposal procedures

### Section 14

Transport procedures

Not classified as hazardous for transport

### Section 15

Regulatory Information

Not listed

### Section 16

Other Information

The information in this document meets the European requirements for safety and health measurements. (91/155/EWG)

The information contained in this document is based on data considered to be accurate at the time of publication and is given free of charge. It is representative of typical product but batch may exhibit minor variations.

NO warranty is expressed or implied concerning the accuracy of this data.

In case of doubt or for clarification Enviolyte should be consulted. Enviolyte is unable to anticipate all conditions under which the product may be used, and users are advised to carry out an assessment of workplace risk and carry out their own tests to determine Safety and Suitability for the process and conditions of use.

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