

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Envirolyte Anolyte or Anolyte

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name Envirolyte Anolyte or Anolyte

1.2 Relevant identified uses of the substance or mixture and uses advised against

Disinfectant.

Use biocides safely. Always read the label and product information before use. This safety data sheet contains general information concerning the chemical, but specific instructions and guidelines are indicated on the product label and in the instructions for use.

1.3 Details of the supplier of the safety data sheet

1.3.1 Supplier Furnaato OÜ
1.3.2 Address Jalaka 60a, Tartu
Tel: +37256677262
info@desolyt.eu

1.4 Emergency telephone number

EMERGENCY NUMBER 112
POISON INFORMATION ESTONIA: 16662 (from abroad (+372) 794 3794)
CENTRE

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

The product is not classified as dangerous according to Regulation 1272/2008/EC

2.2 Label elements

According to Regulation (EC) No. 1272/2008:

Pictogram(s) -
Signal word -
Hazard Statements -
Precautionary Statements -

Special packaging requirements:

Containers to be fitted with child-resistant fastenings Not applicable
Tactile warning of danger Not applicable

2.3 Other hazards

See Section 11 for more detailed information on health effects and symptoms.

SECTION 3: Composition/information on ingredients

3.1 General information: Ingredients

Envirolyte ANK-Neutral Anolyte contains active chlorine compounds such as HClO (FAC in mg/l or ppm) in the range of 0,10%-0,01 % generated from sodium chlorine by means of electrolysis. 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).

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Identifiers	Substance name	%	Classification
			Regulation (EC) No 1272/2008
CAS: 7647-14-5 EC: 231-598-3 Index: - REACH Reg. No.: -	Sodium Chloride	0,9	Not classified
CAS: 7790-92-3 EC: 232-232-5 Index: - REACH Reg. No.: -	Hypochlorous acid	0,1	Not classified

See Section 16 for the full text of hazard statements.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General first aid measures** When obtaining medical advice, show the Safety Data Sheet or label.
- Inhalation** Seek fresh air. Seek medical advice in case of persistent discomfort.
- Eye contact** Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
- Skin contact** Remove contaminated clothing. Wash the skin with water. Seek medical advice in case of persistent discomfort.
- Ingestion** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

4.2 Most important symptoms and effects, both acute and delayed

May cause slight irritation to the skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** Treat symptoms.
- Specific treatments** No special immediate treatment required.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media** The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.
- Unsuitable extinguishing media** Do not use water stream, as it may spread the fire.

5.2 Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes – seek fresh air.

5.3 Advice for fire-fighters

Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** Wear gloves.
- For emergency responders** In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

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6.2 Environmental precautions

Do not discharge large quantities of concentrated spills and residue into drains.

6.3 Methods and materials for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth. Rinse with water.

6.4 Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool, well-ventilated area and ensure the solution is correctly labelled. Do not seal containers completely, make sure any gas from the tank has the way to safely evacuate. Shelf life: approximately 12 months. For that keep in tightly closed original packaging/bottle.

7.3 Specific end use(s)

In addition to information given in this section, relevant information can also be found in Section 8.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Contains no substances subject to reporting requirements.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Wear the personal protective equipment specified below.

8.2.2 Individual protection measures

Eye/face protection Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

Skin protection Plastic or rubber gloves recommended. Gloves must conform to EN 374.

Respiratory protection Not required at neutral pH, strongly advised at pH ≤ 5 .

8.2.3 Environmental exposure controls

Not relevant.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Clear
Odour	Chlorine
Odour threshold	Not available
pH	5,5-8,5 (Concentrate)
Melting point/freezing point	0 °C

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Initial boiling point and boiling range	100 °C
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	2,33 Pa
Vapour density	Not available
Relative density	1
Solubility(ies)	Water: Completely miscible
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

9.2 Other information

Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive.

10.2 Chemical stability

The product is stable under normal conditions of use.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Not applicable.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met. Test data are not available.

Ingestion:

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

Dermal:

ANK - Neutral Anolyte in its strongest form may cause slight irritation to sensitive skin or open wounds.

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Inhalation:

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

Irritation and corrosivity

ANK- Neutral Anolyte in its strongest form may cause irritation to the eyes. Based on available data, the classification criteria are not met. Test data are not available.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. Test data are not available.

Germ cell mutagenicity

Based on available data, the classification criteria are not met. Test data are not available.

Carcinogenicity

Based on available data, the classification criteria are not met. Test data are not available.

Reproductive toxicity

Based on available data, the classification criteria are not met. Test data are not available.

Repeated and single specific target organ toxicity

Single dose: Inhalation of vapours may cause irritation to the upper airways. Based on available data, the classification criteria are not met. Test data are not available.

Other information on health effects

ANK-Neutral Anolyte in its strongest form (C.ac >1000mg/l) may cause irritation to the eyes, sensitive skin and throat. Where the solution is stored in bottles one should not try to smell or inhale the evaporations.

SECTION 12: Ecological information

12.1 Toxicity

The product is not toxic to the environment based on available data. Test data are not available.

12.2 Persistence and degradability

Expected to be biodegradable. Test data are not available.

12.3 Bioaccumulative potential

No bioaccumulation expected. Test data are not available.

12.4 Mobility in soil

Test data are not available.

12.5 PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

No known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The information in this section contains generic advice and guidance.

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

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Incineration or landfill should only be considered when recycling is not feasible.
EWC code: Depends on line of business and use, for instance 16 03 04. Inorganic wastes other than those mentioned in 16 03 03
Absorbent/cloth contaminated with the product: EWC code: 15 02 03 Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02.

Packaging

Methods of disposal

Empty remaining contents. The generation of waste should be avoided or minimised wherever possible. Empty, cleansed packaging should be disposed of for recycling.

SECTION 14: Transport information

Product does not classify dangerous transport.

- | | | |
|------|--|---|
| 14.1 | UN number | - |
| 14.2 | ADR/RID | - |
| 14.3 | IMDG | - |
| 14.4 | IATA | - |
| 14.5 | Special precautions for user | |
| 14.6 | Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | |
- Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation No. (EC) 1907/2006 (REACH).
Regulation No. (EC) 1272/2008 (CLP).
Regulation (EU) No 528/2012 (BPR).

Regulation No. (EC) 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern (SVHC)

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable

- 15.2 **Chemical Safety Assessment** Chemical safety assessment has not been performed.

SECTION 16: Other information

16.1 Use of the product

Instructions of use

See label.

16.2 Abbreviations

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

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CAS = Chemical Abstracts Service number.

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EINECS (EC) = European Inventory of Existing Commercial chemical Substances

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

PBT = Persistent, Bioaccumulative and Toxic

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

vPvB = Very Persistent and Very Bioaccumulative

16.3 Full text of classifications according to (EC) Regulation No. 1272/2008:

Classification method Not applicable.

Full text of abbreviated hazard categories and statements -

16.4 Other information

Training A thorough knowledge of this safety data sheet should be a prerequisite condition.

Other information This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.