



Safety data sheet

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Version: 3.2 / EU_UK

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

1.1. Product identifier

Technical name: Active chlorine generated from sodium chloride by electrolysis (Redefined from Active Chlorine: manufactured by the reaction of hypochlorous acid and sodium hypochlorite produced in situ).

Trade name: Envirolyte Anolyte or Anolyte

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

Recommended uses: 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

Supplier: Envirolyte Industries International Ltd
Sarruse str. 16
11415 Tallinn
Estonia

Tel: +372 6626630

1.4. Emergency telephone number:

+372 6626630

Emergency telephone comments

The emergency telephone is open between 9 a.m. and 5 p.m. on working days.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008(CLP):

The product shall not be classified as hazardous according to EU classification and labelling rules.

Main hazards: ANK-Neutral Anolyte in its strongest form (C.ac >500mg/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.

Health effects eyes: ANK- Neutral Anolyte in its strongest form may cause irritation to the eyes.

Health effects skin: ANK - Neutral Anolyte in its strongest form may cause slight irritation to sensitive 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 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.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008(CLP):
not required

2.3. Other hazards

Result of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

This substance is not known as an „endocrine disruptor“.

Section 3: Composition and information on the ingredients

Enviolyte ANK-Neutral Anolyte contains active chlorine compounds such as HClO (FAC in mg/l or ppm) in the range of 0,01%-0,10 % 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).

Main ingredients	CAS-No	EINECS-No	Wt/vol %	Symbols
Sodium Chloride	7647-14-5	231-598-3	0.10%	NaCl
Hypochlorous acid	7790-92-3	232-232-5	0.05%	HClO
Water	7732-18-5	231-791-2	99.85%	H ₂ O

Section 4: First aid Measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. 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.

Skin: Remove contaminated clothing. Wash the skin with water. Seek medical advice in case of persistent discomfort.

Eyes: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

Other information: When obtaining medical advice, show the safety data sheet or label.

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

No special immediate treatment required.

Section 5: Firefighting 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 firefighters

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 non-emergency personnel: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

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

6.3. Methods and material 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, in a ventilated plastic containers 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)

None

Section 8: Exposure Control/ Personal Protection

8.1. Control parameters

Legal basis: Directive 2000/39/EC as subsequently amended.
Contains no substances subject to reporting requirements.

8.2. Exposure controls

Appropriate engineering controls:

Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection:

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

Personal protective equipment, skin protection:

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

Personal protective equipment, respiratory protection:

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

Environmental exposure controls:

Ensure compliance with local regulations for emissions.

Section 9: Chemical and Physical Properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Clear
Odour:	Chlorine
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate):	5,5-8,5
Melting point/freezing point:	0°C.
Initial boiling point and boiling range:	100°C.
Flash point:	No data
Evaporation rate:	No data
Flammability:	No data
Vapour pressure:	2,33 Pa
Vapour density:	No data
Relative density:	1
Solubility in water:	Completely miscible
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data

Oxidising properties: No data

9.2. Other information

None

Section 10: Stability and Reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

Section 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity - oral: The product does not have to be classified.

Acute toxicity - dermal: The product does not have to be classified.

Acute toxicity - inhalation: The product does not have to be classified.

Skin corrosion/irritation: The product does not have to be classified.

Serious eye damage/eye irritation:
The product does not have to be classified.

Respiratory sensitization or skin

sensitization: The product does not have to be classified.

Germ cell mutagenicity: The product does not have to be classified.

Carcinogenic properties: The product does not have to be classified.

Reproductive toxicity: The product does not have to be classified.

Single STOT exposure: The product does not have to be classified.

Repeated STOT exposure: The product does not have to be classified.

Aspiration hazard: The product does not have to be classified.

Other toxicological effects: None known.

11.2. Endocrine disrupting properties

This substance is not known as an „endocrine disruptor“.

11.3. Information on other hazards

There is no additional information.

Section 12: Environmental Information

12.1. Toxicity

The product does not have to be classified. 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

Data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

This substance is not known as an „endocrine disruptor“.

12.7. Other adverse effects

None known.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

Contact the local authorities.

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. Empty, cleansed packaging should be disposed of for recycling.

Section 14: Transport information

The product is not covered by the rules for transport of dangerous goods.

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user -

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code –

Section 15: Regulatory Information

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

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

Special provisions: None

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

Section 16: Other Information

Abbreviation and acronyms explanations

CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the UN
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
STOT	Specific Target Organ Toxicity
vPvB	Very Persistent and Very Bioaccumulative

Classification method

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture.

Training

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

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Disclaimer

This SDS is based on our current knowledge and 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 batches may exhibit minor variations. In case of doubt or for clarification Envirolyte should be consulted. Envirolyte 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. This SDS has been compiled and is solely intended for this product.

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