

MATERIAL SAFETY DATA SHEET

Version 4.1 EN
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PRODUCT:	Anolyt-pH™
SPECIAL INFORMATION:	The product is electrochemically generated online by Anolytech Disinfection System™ Products.
Company information:	Anolytech / SF Ystad Holding AB, P.O. Box 2019, SE-27102 Ystad, Sweden Phone: +46 411 24 30 30 E-mail: info@anolytech.se
Emergency call:	Out of office time, call 112

1. PRODUCT IDENTITY

Chemical Name of Product:	Hypochlorous acid, dilute solution in water
Common name	Anolyte, Electrochemically Activated Water (ECA)
Product Type	Oxidising disinfectant in water

Ingredients used	CAS-No.	EINECS-No	Weight / Volume %
Water	7732-18-5	231-791-2	99.5
Sodium chloride	7647-15-5	231-598-3	0.5

After electrochemical activation

	CAS-No.	EINECS-No	Concentration (mg/L)
Hypochlorous Acid	7790-92-3	232-232-5	400-500
Hypochlorite ion	7681-52-9	231-668-3	< 50

Safety instructions in this document relate to non-diluted solution taken directly from the system, it contains 0,05% of hypochlorous acid. This solution is typically (online) diluted 100-200 times before use.

2. HAZARD IDENTIFICATION

Statement:	EUH031 – contact with acids liberates toxic gas.
Identification:	None
Danger Symbol:	None

3. COMPOSITION

This product is a preparation based on salt for drinking water softener, typically made of very pure refined vacuum salt, free from any harmful soluble or insoluble contaminants. Beside salt (sodium chloride) the major component of the product solution is the weak acid hypochlorous acid (chemical formula, HClO).

4. FIRST AID MEASURES

Skin contact

Remove contaminated clothing including shoes immediately and wash affected skin with water (>10 min, 20-30 °C).
Seek medical attention if irritation develops and persists.

Eye contact

Immediately flush eyes with water (>10 min, 20-30 °C). Seek medical advice if irritation persists.

Ingestion

Do not induce vomiting: give plenty of water to drink.
Seek medical assistance if ill effects occur.

Inhalation

Remove individual to fresh air.
Seek medical assistance if ill effects occur.

5. FIRE-FIGHTING MEASURES

Extinguishing media suitable

Chemical type foam, Powder, Sand, water spray

Hazardous combustion products

Oxides of Chlorine

Hazards and methods

General hazard – evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes or smoke.

Protection of fire fighters:

Flammability

Not flammable

Special fire-fighting procedures

None

6. ACCIDENTAL RELEASE MEASURES

Leaks and spills can be removed in accordance with methods employed for ordinary water. Wash to waste with plenty of water.

7. HANDLING AND STORAGE

Handling concentrated product	Should not be stored or handled together with strong acids, such as hydrochloric acid or sulfuric acid.
Handling or applying diluted product	No special precautions necessary
Storage	Optimal efficacy of the product will be prolonged if the product is stored away from direct sunlight and in sealed, airtight opaque or tinted containers
Other precautions	Keep out of reach of uninformed persons, children and animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear safety glasses when handling the product. Avoid prolonged contact with the skin. Use good personal hygiene practices.

Avoid prolonged breathing of an aerosol of the solution in enclosed non-ventilated spaces.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical stat	Liquid
Chemical	pH = 6.5 ± 0.5
Appearance	Homogeneous clear liquid
Colour	Colourless
Solubility	Completely in water
Odour	Mild chlorine
Boiling point	100 °C

10. STABILITY AND REACTIVITY

Stability	The product is stable under normal ambient conditions. It retains its optimal activity a period of up to 48 hours. Keep above 0 °C.
Incompatibility (material to avoid)	Avoid mixing with concentrated acids or alkaline solutions.
Hazardous decomposition	May generate chlorine gas vapours in acidic solution (pH<4). Do not mix the with ammonia.

Stainless Steel grades
304 10^{-3} mm/annum,
316 10^{-3} mm/annum, 3CR12
10^{-1} mm/annum, mild steel 0.35
mm/annum, galvanised steel
0.24 mm/annum.



11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ (oral: Rat) > 5000 mg/kg
Acute dermal irritation	Negative
Acute eye irritation	Negative
Dermal Sensitisation – Guinea Pig	Negative
Mutagenicity (Ames test)	Negative for In-vitro <i>Salmonella typhimurium</i> mutagenic studies
Cytogenicity	At 500 ppm available chlorine, no Cytogenetic activity on mice bone marrow chromosomes was induced.
Carcinogenicity	Not reported for hypochlorous acid
Inhalation	Not applicable
Occupational exposure limits	None
Health hazards	There are no known health hazards.

12. ECOLOGICAL INFORMATION

Environmental data	No identified hazard to the environment.
Degradability	The product degrades to source water quality with a low sodium chloride mineralisation allied to the input concentration of the salt.

Hazards

No data

13. DISPOSAL CONSIDERATIONS

Where permitted, the product can be disposed of in municipal drains without adverse effects. However, where required, local environmental regulatory requirements should be followed. The oxidant activity of Anolyte can be neutralised with surplus organic matter/soiling or sodium thiosulfate - Dilute to waste with plenty of water.

14. TRANSPORT INFORMATION

Packaging in black plastic containers. No specific transport requirements.

(For concentrated solutions of hypochlorous acid special transportation regulations apply.)

15. REGULATORY INFORMATION

This document has been established in accordance with 1907/2006/EC, 453/2010/EC and 1272/2008/EC.

16. OTHER INFORMATION

FOR FURTHER INFORMATION REFER TO ANOLYTECH AB's COMPANY WEBSITE OR PERSONAL SUPPORT

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health and safety requirements only. It should not, therefore, in itself be construed as a guarantee of any specific quality relating to the product, which will depend on the terms of the contract of trial or sale. The user must satisfy himself/herself that the product is suitable for his/her purpose.
