

Frequently asked questions

Q: What chemicals are used to produce Enviolyte solutions?

A: None. They are produced using water, a 0.5 to 1% solution of salt (NaCl or KCl), and electricity.

Q: What does an Enviolyte unit do?

A: The unit outputs 100% bio-degradable, non-toxic sanitising liquids that can replace harsher chemical formulations.

Q: What liquids are produced by the Enviolyte unit?

A: The units produce three basic liquids: Neutral Anolyte, Acidic Anolyte, and Catholyte.

Q: What will the liquids do?

A: The Anolytes are guaranteed to remove and destroy 99.99% of fungi, spores, bio film, bacteria and viruses.

The Catholyte is an efficient mild cleaning agent.

Q: Will Anolyte remove odours and help with COD load in effluent systems?

A: Yes! Anolyte is a very good deodoriser, and efficiently breaks down organic loads enhancing digestion in effluent systems.

Q: What is Neutral Anolyte?

A: Neutral Anolyte is an activated mix of Acidic Anolyte and Catholyte. It holds a pH of around 7 and can replace toxic chemical formulations. Easy, safe handling. Below HSNO thresholds.

Q: What is Acidic Anolyte?

A: Acidic Anolyte holds a pH value around 2 and can replace toxic chemical agents where an acid agent is used. For quicker micro kill when needed. Guaranteed to yield better results, and be more cost efficient than chemicals.

Q: What is Catholyte?

A: Catholyte is a caustic soda equivalent. It holds a pH around 12-13 and can replace chemical agents more efficiently and at less cost than any chemical formulation. With Catholyte, processes like CIP can be accomplished using cold water (not all applications) yield the same results as using caustic soda in warm water.

Q: What are the active agents in the liquids?

A: Anolytes consist of 99.6% water, 0.26% salt and 0.05% hypochlorous acid & hypochlorite ion. The Enviolyte Units contain one (or more) special electrolytic cells that charge the water with an electrical charge. The concentrate of liquid holds around 800 - 1,200 mV of charge (ORP), depending on whether it is made as an acidic or a neutral anolyte.

Q: What is so special about this electrolyte cell compared to other similar products?

A: The titanium electrodes in the cells are coated with a special alloy that enables the cells to endure extremely high voltage throughput. Other electrolytic cells on the market will only manage a voltage of around 8 volts, and their lifetime is around 6-8 months. In the Enviolyte cells the voltage is 4 fold.

Q: What is the life expectancy of the Enviolyte Cells?

A: The cells are expected to have a lifetime of 5 years - used at 10hrs/day - after which the cells need to be replaced or reconditioned.

Q: How much solution can the units produce?

A: It depends on the unit. We have units that produce from 300 litres/day up to 12,000 litres/day. The solutions are diluted in various ratios, depending on the application.

Q: What does the unit cost and what are the running costs?

A: All of the units are customized for their intended use. Prices are estimated to range from \$10,000 to over \$200,000, depending on the scale of application. Once the unit is installed, then the only running costs are water, salt and electricity - eg: an EL 6000 - litres/day cost approx. \$12.50/day to run.

Q: I don't see my industry on your website. Does this mean that it can't be used?

A: No! Enviolyte has deployed products in a wide range of industries for sometime now. If you don't see any examples or white papers concerning your industry on our site, please contact us for more information.

Q: How much do I need to dose in my application?

A: It depends on the application. Enviolyte, however, considers 3% dosing of the liquid in concentrate form to be an adequate industrial sanitizer or post harvest wash. In drinking water normally 1:1000 (depending on the contamination) is more than enough to remove all bacteria and bio-film.

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