



# SureCide AH Continuous Poultry Drinking Water Treatment Program: Healthier Animals Produce Healthier Profits

*Presented by:*

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# Outline

Who is Enviro Tech?

Industry Challenges

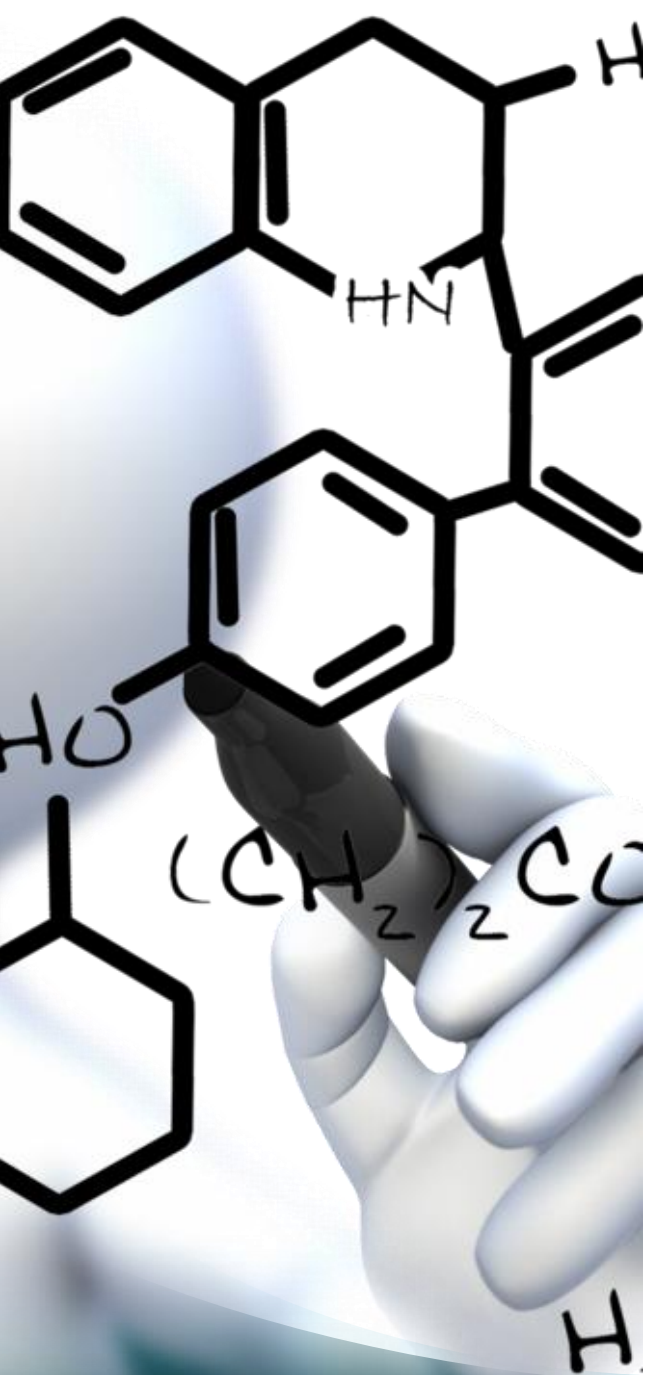
What is Chlorine Dioxide?

Why Chlorine Dioxide?

Equipment Options

Adding Value





# The Ideas are the Difference!

ET is founded on innovation.

New Patented Products

Regulatory expertise

2<sup>nd</sup> to none!

Technical Support

GLP Laboratories

# The Ideas are the Difference!

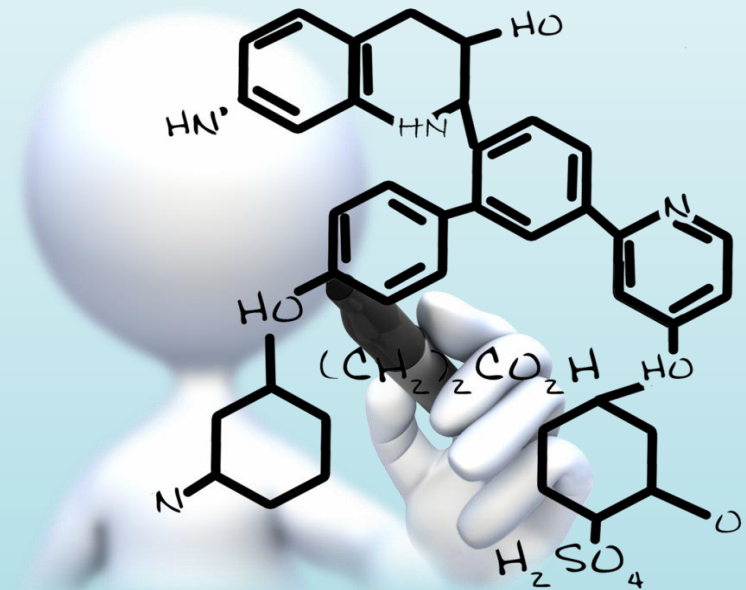
Enviro Tech has

10 issued patents

3 patents pending

25 primary US EPA registrations

14 FDA Food Contact  
Notifications





# Manufacturing



# Industry Background and Challenges



- Poultry drinking water is a major source of health challenges
  - a) **Water supplies** (wells or city water) can contain microbes
    - Bacteria, fungi (yeast and mold), viruses, algae, protozoa, etc.
  - b) **Drinker systems** make it easy for bacteria causing diseases to grow and thrive by forming protective biofilms within the waterlines
    - Water is slow moving/gets warmed – encouraging microbial growth
    - The system may have many hiding places and dead ends – niches
    - Drinking nipples connected to the systems/lines allowing microbes, their spores and food particles to transfer from animals to the water stream inside the line
      - Microorganisms of concern are: *E. coli*, *Salmonella*, *Campylobacter*, *Clostridium septicum*, *Clostridium perfringens*, *Staphylococcus aureus*, etc.



Drinkers Allow The Transfer of Bacteria From Animal to Animal Through The Drinking Water System



- *SureCide AH* is a chlorine dioxide based product (7.5% chlorite = 4.5% ClO<sub>2</sub>)
- EPA Registered & OMRI Certified
- Two part products (sodium chlorite and GRAS activating acid)
- MVP Activator-P or MVP Activator-C
- Requires proper activation prior to use
- Activation is achieved automatically via an enclosed system to generate the stock solution – no manual mixing – no sachet packets – concentrated liquids are more cost effective and reliable than granular and tablet products
- Stock solution is then diluted automatically to 3-5 ppm total ClO<sub>2</sub> (0.5 – 1.5 free ClO<sub>2</sub>) using flow controlled electronic metering pump or water driven volumetric pump
- The system is safe and easy to install
- ClO<sub>2</sub> is effective over a much wider pH span than chlorine and has 2.6x the oxidizing capacity – unlike chlorine, chlorine dioxide contributes to pH control

*Surecide AH is more cost effective than similar products in the marketplace*







*“Chlorine dioxide is making its way onto the market as a poultry drinking water sanitiser, partly because the application of chlorine dioxide has been resolved by new chlorine dioxide generation methods. Chlorine dioxide is as effective as chlorine, as a bactericide and even more effective as a virucide, and is also superior to chlorine for the removal of iron and manganese. It is not impacted by pH.” – Dr. Susan Watkins*

#### **How effective is chlorine dioxide in sanitising water?**

*“Chlorine dioxide is extremely effective and is one of the most powerful water sanitising agents available. It is highly effective in killing bacteria, viruses, protozoa, spores, yeasts, molds and other disease-causing organisms.” – Byron Stein*

## Industry Recognized

Allen Harim Farms

Kreider Farms

Perdue Farms – Delmarva

Amick Farms

Cooper Farms

Cal-Maine Foods

VALO BioMedia

Cobb Vantress

Jaindl Farms

Simmons Foods



# Program Benefits

- Continuous waterline sanitation lessens the need for labor intensive line flushing – ensures water quality
- Improved feed conversion ratios (less feed/more weight) = more money for both the producer and the integrator
- Heavier animals
- Reduced risk of mortality caused by bacterial born diseases – improved gut health
- Robust farm level intervention program that supports the ABF (Antibiotic Free) movement within the industry – FSMA (farm to table transparency)
- Grower Safety – No manual chemical mixing required!

Healthier Animals Produce Healthier Profits



# ClO2 Generator – Hydro Systems





- Low Cost w/discounts for bulk orders
- Minimal maintenance required
- Simple venturi dilution – adjustable dilution ratios
- Automated- No Manual Mixing
- Double Float controlled
- No electric required – water only
- Smaller footprint than similar generators
- Buy directly from manufacturer – not Enviro Tech
- [www.hydrosystemsco.com](http://www.hydrosystemsco.com)
- Part # HYD522



## Two-Chemical Pre-Dilution Tank

Provides Ultra Lean Dilutions for the Farm

The new two-chemical pre-dilution tank system by Hydro Systems features HydroMinder technology, replacing the need for off-line mixing. The water driven system can dilute two different chemicals into a single solution, while the tank, driven by HydroMinder, automatically refills itself.

### Features and Benefits

- Displays open architecture capabilities and can be used with injectors that are currently installed resulting in the lower cost of ownership
- Constructed out of polypropylene resulting in good overall chemical resistance to chlorine, acidifiers, etc.
- Eliminates the need to mix product off-line resulting in less errors
- Lower cost of ownership – Mix-on-demand feature results in less human monitoring and allows for only the mixing of chemicals that you need
- Simple to install – requires only pliers or channel locks, which results in less installation costs

### Principal Applications

Teat Dip Preparation and Sanitization of Water Lines



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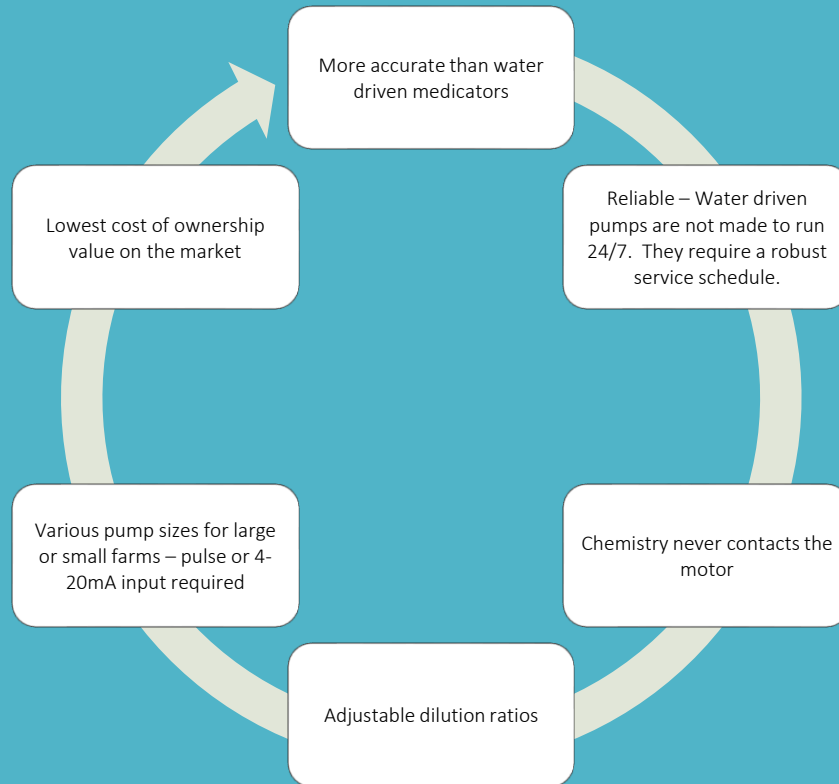
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# Electronic Metering Pumps



# Selling Water Line Sanitation - How?

- Investment
  - ✓ Proper programs benefit growers
- Service
  - ✓ Non-working equipment benefits no one
  - ✓ Service perception
- Results
  - ✓ Be patient
  - ✓ Set your growers up for success







## Additional Animal Health Products

- Perasan A – Peracetic Acid 5.6%
- FG Hydrogen Peroxide
- Citric Acid - 50%
- Quat
- Floor Guard – beaded anti-microbial floor treatments
- ❖ *EPA Reg. Litter Amendment (Provisional Patent)*



# Questions? More Information?

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