



Acephsis[®]

Asepsis (uh-SEP-sis, ay-SEP-sis):
The state of being free from disease-causing micro-organisms.

Who We Are and What We Do

REVOLUTIONIZING ON-FARM HYGIENE SOLUTIONS

WHO WE ARE

Who Are We?

ACEPSIS® is a Wisconsin-based innovator in advanced animal hygiene technologies, dedicated to helping modern farms achieve healthier herds, cleaner facilities, and stronger production results. Our goals are simple yet powerful: protect animal wellness while advancing the sustainability, longevity and profitability of animal agriculture.

Our Primary Avenue to Success is Chlorine Dioxide. Why?

At the core of our success is our expertise in chlorine dioxide hygiene systems.

Chlorine dioxide is a widely used oxidizing agent in water and facility hygiene programs. Acepsis solutions focus on controlled on-site generation, consistent application, and process monitoring to support cleaner facilities and well-managed water systems.

Unlike some traditional approaches, chlorine dioxide can support consistent hygiene routines and operational performance when used as part of a complete farm program.

Why the Acepsis® Way Leads the Industry

Yes, other companies offer chlorine dioxide. But only Acepsis® delivers a comprehensive, farm-wide program designed for measurable results:

- Proven efficacy backed by ORP (Oxidation Reduction Potential) testing
- Advanced formulations that maximize oxidation power without compromising stability
- Sustainable practices with ultra-concentrated precursors and efficient automated blending systems
- Customized farm solutions supported by expert field teams who tailor programs to your unique needs



Measurement of Oxidizing Agent ORP Values In Pathogen Disinfection*

OXIDIZING AGENT OXIDIZING AGENT ORP VALUE RANGE (mV)	
CHLORINE DIOXIDE (ClO ₂)	600 → 1000 MV
OZONE* (O ₃)	700 → 1000 MV
IODOPHORS (I ₂)	400 → 600 MV
HYDROGEN PEROXIDE	300 → 500 MV
SODIUM HYPOCHLORITE	250 → 500 MV

ORP Values In Pathogen Disinfection**

PATHOGEN SURVIVAL IN SECONDS (S) OR HOURS (H) AT ORP LEVELS (MV)

Pathogens	<500 ORP (mV)	500 - 600	600 - 700	700+
E. COLI (0157:H7)	> 300 S	< 60 S	< 10 S	< 1 S
SALMONELLA SPP.	> 300 S	> 300 S	< 20 S	< 1 S
LISTERIA MONOCYTOGENES	> 300 S	> 300 S	< 30 S	< 1 S
THERMO-TOLERANT COLIFORM	> 48 H	> 48 H	< 30 S	< 1 S



*Ozone is greatly influenced by the water quality and ozonation system.

**Oxidation Reduction Potential (ORP) for Disinfection Monitoring, Control and Documentation; University of California, Trevor Suslow, Department of Vegetable Crops, University of California - Davis

BOTTOM LINE

Acepsis® is more than a product supplier—we're your partner in achieving total hygiene and stronger farm performance.



1. TOTAL HYGIENE PROGRAM

Acepsis® products are integral to comprehensive hygiene programs that cover all aspects of farm cleanliness. They focus on the use of chlorine dioxide technologies as a primary step within a total hygiene program.



2. MAXIMIZED OXIDATION CAPACITY

Our **advanced chlorine dioxide formulations** are designed to be potent oxidizers **activated** at lower concentrations, supporting high oxidation capacity and formulation consistency and longer shelf life compared to competitors. Also, competitive products made with the emollient packages included in the activator or base formulations will show dramatically lower oxidation capacities, which translates into lower efficacy.



3. MEASURABLE EFFECTIVENESS

The performance of our programs can be quantified using **ORP (Oxidation Reduction Potential)** meters as a process monitoring tool, supporting consistent formulation, application, and documentation. **ORP is measured in millivolts (mV)** and is used to compare the oxidative potential of solutions, indicating their relative capacity to drive oxidation reactions that can compromise cellular integrity.



4. ECONOMY AND ECOLOGY

Our Automated Blending Processes streamline product delivery, reduce labor costs, and support sustainability through recyclable totes and drums. In addition to providing optimal **Acepsis® products** for water, facility and animal hygiene, we utilize a "Best Practices" approach that strengthens the product results.



5. QUALITY MANAGEMENT

The Acepsis® Systems prioritize the individual needs of each dairy farm, focusing on improved hygiene, reduced costs, and lower incidences of underperforming animals, putting the individual dairy farm needs first, and in total control. The system focuses on:

- Improved farm hygiene
- Lower input and operational costs
- Lower incidence of exception animals
- Our experts work with your team to solve any on-farm concerns

OUR FOCUS AREAS

Acepsis® solutions target the three most critical hygiene points on the farm:

- 1. Animal Hygiene** – Supporting udder hygiene routines and milk quality management
- 2. Facility Hygiene** – Keeping barns, parlors, and equipment consistently clean
- 3. Water Hygiene** – Supporting management of the water at the trough for better intake and overall herd performance

WATER HYGIENE

SMART TROUGH™

THE FUTURE OF LIVESTOCK MANAGEMENT

Unlock the full potential of your dairy herd with the essence of a healthy, vibrant herd: **clean, healthy water!**

The patented Acepsis® SMART TROUGH™ System: a new-to-the-world water trough design. The SMART TROUGH collects all the organics that enter the trough into a central channel.

To clean out the organics collected, a baffle tube is placed over the central channel. When the SMART TROUGH drain is opened, it **instantly removes 90+% of the organics collected, dumping less than 20% of the water from the SMART TROUGH™!**

THE MANY ADVANTAGES



1. Enhanced Animal Health

- Risk Reduction
- Improved Hydration and Welfare

2. Increased Productivity and Performance

- Higher Milk Yield
- Improved Feed Efficiency

3. Cost Savings

- Reduced Veterinary Costs
- Maintenance and Operational Efficiency

4. Sustainability and Environmental Protection

- Sustainable Water Management
- Reduced Environmental Impact

5. Quality Assurance / Market Compliance

- Compliance with Standards
- Improved Product Quality

6. Data-Driven Decision Making

- Real-Time Monitoring
- Informed Management Decisions



✓ Clean Troughs! ✓ Healthy Water! ✓ Healthier Herd! . . .

WATER HYGIENE

AquaSoar™

THE ULTIMATE WATER HYGIENE TECHNOLOGY

Use AquaSoar as an everyday water quality management solution to help keep animal drinking water palatable and consistent across the farm water system.

AquaSoar™ is a concentrated, two component, activator / base technology that produces chlorine dioxide on site, using the farm water source for dilution. The specially formulated AquaSoar™ Activator / Base precursors produce chlorine dioxide at the highest yield, in the shortest amount of time.

Acepsis® AquaSoar™ supports maintaining palatable, well-managed drinking water for animals as part of a water quality program.

KEY FEATURES

- **On-Site Chlorine Dioxide Production:** Uses farm water for dilution, producing chlorine dioxide efficiently
- **Biofilm Management:** Helps manage biofilm-related buildup in water systems as part of a water quality and maintenance program
- **Cost-Effective:** Concentrated precursors ensure low cost per use, providing great value



Acepsis® AquaSoar™ is proud to be NSF certified.



AquaSoar™ Activation System

THE SOLUTION

Managing system buildup is important for maintaining water line performance. The AquaSoar™ product line, combined with our AquaSoar™ Activation System, supports management of biofilm-related buildup as part of a water quality and maintenance program.

The AquaSoar™ **Activation System** delivers the highest yields and efficiency in the activation and dosing of the AquaSoar™ product.

Higher yields, higher efficiency, quantifiable results, increased ROI.

THE AQUASOAR™ ACTIVATION CHAMBER IS A FOUR-COMPONENT WATER HYGIENE SYSTEM

- | | |
|---------------------------------|------------------------|
| A. AquaSoar™ Activation Chamber | D. Water Meter |
| B. Dual Product Injection Pump | E. AquaSoar™ Base |
| C. Controller | F. AquaSoar™ Activator |



EXPERT SOLUTIONS FOR YOUR **NEEDS**



ANIMAL HYGIENE

NOVA SMART™ Milking Hygiene System

TEAT DIP FORMULAS

The **Aceptis® NOVA SMART™ Milking Hygiene System** provides a breakthrough technology combination of concentrated **Precursor Teat Dip Formulas**, together with a **Patented Production System**.

The NOVA SMART™ System puts a dairy farm, and its Milk Quality Team, in complete control. The on-farm mixing system provides complete transparency of formulation and usage rates. You can also track exactly how much product you're using – from day to day, or even shift to shift.



KEY FEATURES

Remote Monitoring of the mixing system is available. Text message alerts show for:

- Overproduction (perhaps there's a leak in the distribution system)
- Underproduction (perhaps the night shift didn't dip cows)
- Manufacturing fault codes (perhaps one of the precursor drums is empty)

Premium Precursors create premium Ready-to-Use product! It's a high-performance chlorine dioxide-based teat dip designed for consistent on-farm production, with strong RTU shelf-life characteristics.

The **NOVA™ PREP** and **NOVA™ POST teat dips** are produced to deliver formulations at a higher oxidation capacity, improving performance at safe concentrations for udder, teat skin, and operator safety.



YOU CAN MEASURE THE DIFFERENCE

The oxidation capacity of an oxidizing solution can be measured and compared. That is done with an **ORP (Oxidation Reduction Potential) meter**. ORP (Oxidation Reduction Potential) is a measurable process indicator used to compare relative capacity to drive oxidation reactions that can compromise cellular integrity. ORP is used for process monitoring and documentation, not as a direct measure of biological performance. Translated into the hygiene world, the higher the ORP reading, the better it is.

This is extremely important in high-pressure milking parlors, where pre-milking time is minimized.

EXPERT SOLUTIONS FOR YOUR **NEEDS**

ANIMAL HYGIENE

HabiShield™ Drying Powder

ANIMAL HYGIENE DRYING POWDER

Your **Calf Biosecurity** Program:
Protecting Your Most Important Assets!



HabiShield™ Drying Powder is a multi-purpose drying agent ideal for calf biosecurity. May be used to dry newborn calves / wet animals and in animal bedding to support cleanliness and comfort. Key features include:

- **Moisture Absorption:** Absorbs three times its weight in water, helping manage moisture in bedding areas
- **Odor Control:** Maintains a clean and safe environment for newborn calves.
- **Temperature Regulation:** Helps calves regulate body temperature by preventing heat loss.

EXPERT SOLUTIONS FOR YOUR **NEEDS**

FACILITY HYGIENE

HabiStat™

THE ULTIMATE FACILITY HYGIENE TECHNOLOGY

Improving Animal Wellness Through Optimized Facility Hygiene

A powerful facility hygiene technology designed to maintain a clean and safe environment in animal housing facilities.

Its **benefits include:**

- **Concentrated Cleaning Agents:**
Ultra-concentrated base and activator technology contains powerful facility and hygiene agents that ensures thorough cleaning.
- **Hygiene Support:** Helps support consistent facility cleaning practices that contribute to overall animal wellness.



By integrating the **HabiStat™ Activation System**, Acepsis® provides a reliable, efficient, and effective solution for maintaining top-tier facility hygiene.

- **Optimized Mixing**
 - **Automated Delivery**
 - **Timely Application**

FACILITY HYGIENE

Chlor-A-Foam™

THE ULTIMATE DETERGENT FACILITY HYGIENE TECHNOLOGY

Looking clean is no longer an adequate practice. Optimal hygiene requires the proper steps to help reduce cross-contamination risks and improve cleaning consistency.

Acepsis® CHLOR-A-FOAM™ is an ultra-concentrated alkaline foam cleaning detergent, designed for use in the most challenging manual cleaning applications. It features:

- **High pH Formula:** Effective in lifting and removing tough soils and surface buildup from surfaces
- **Enhanced Hygiene:** Ensures cleaner and safer facilities for animals



EXPERT SOLUTIONS FOR YOUR **NEEDS**

FACILITY HYGIENE

HabiGuard™ Powder

FACILITY BIOSECURITY FOR DAIRY FARMS

HabiGuard™ Powder is an advanced surface cleaner specifically designed to meet the unique biosecurity and hygiene challenges of dairy farms. Its innovative formulation penetrates deep into cracks, crevices, and porous surfaces, supporting consistent hygiene practices and facility cleanliness. When activated by moisture, its dual oxidation process ensures powerful cleaning action.



PRIMARY APPLICATIONS

Calf and Maternity Areas

- Bedding Base Treatment (indoor loose housing)
- Calf Hutches (single, dual, and multiple)
- Maternity Pens

Walkways and Traffic Zones

- High-Traffic Areas
- Milking Parlors

Entryways and Biosecurity Zones

- Personnel & Equipment Entrances

Drain and Floor Cleaning

- Odor and Blockage control
- Floor Cleansing



For more information, call Acepsis® or your local representative.

ACEPSIS®, LLC is an animal health based company that is focused on the development of state-of-the-art animal hygiene technologies. Our Company's mission is to apply innovative animal hygiene technologies into the agricultural and veterinary market sectors.