

HabiStat™

The **ULTIMATE FACILITY HYGIENE** Technology Improving Animal Wellness Through Optimized Facility Hygiene

HabiStat™ is an ultra-concentrated, two component, activator and base technology that, when mixed, produces a powerful, chlorine dioxide based cleaning and hygiene solution, designed to clean facility walls, floors, hutches, pens, water troughs and animal feeding equipment.

TYPICAL CHLORINE DIOXIDE TREATMENT APPLICATIONS

- Cleaning calf feeding equipment | Utensils | General Sanitation | Hygiene Procedures
- Cleaning maternity / calving areas | Calf pens / hutches | Floors | Walls | Livestock trailers
- Environmental fogging / No animals present



HYGIENE FOR ALL DAIRY Animal wellness is a function of many environmental variables, including physical surroundings. Particular components of the environment that need to be taken into account include temperature, humidity, light, air quality, space (including complexity of space), nutritional factors, **facility hygiene** and **water hygiene**.



FACILITY HYGIENE Looking clean is no longer an adequate practice. Optimal hygiene requires the proper steps to provide the highest level of protection against the spread of disease-causing organisms.



CHLORINE DIOXIDE is considered a strong and very selective oxidizing agent, and is used as a water hygiene agent to control biofilm, bacteria (E. coli, Salmonella, Listeria, Staphylococcus aureus, Streptococcus uberis, M. bovis, viruses, algae, fungi, protozoans (Cryptosporidium, Giardia Lamblia) and Legionella. Unlike sodium hypochlorite (bleach) chlorine dioxide does not chlorinate organic substances that form trihalomethanes (THMs) or trihaloacetic acids, nor does it react with ammonia to form chloramines.

Dr. Donald Sockett, DVM, MS, PhD, ACVIM at the Wisconsin Veterinary Diagnostic Laboratory states: "Chlorine dioxide is the most effective disinfectant for Cryptosporidium, providing the quickest action at the lowest concentration among available disinfectants. Chlorine dioxide has 2.5 times the oxidizing capacity of bleach, with full biocidal activity at pH levels from 2 – 12, and does not produce eco-toxic byproducts, such as THMs or chloro-phenols."

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



MIXING INSTRUCTIONS

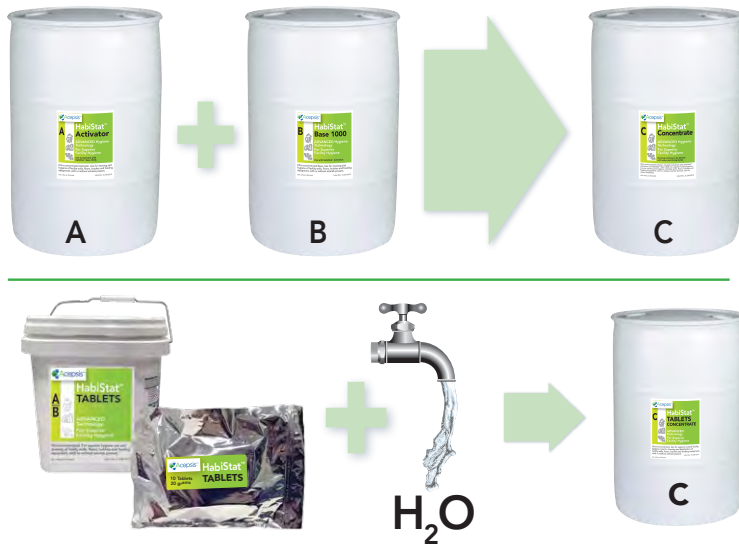
HabiStat™ Activator / HabiStat™ Base 1000 are the components of a two-part ultra concentrated precursor formulation needed to create **HabiStat™ Concentrate**. Use only as directed. Use for cleaning and hygiene of facility walls, floors, hutches and feeding equipment, with or without animals present.

HABISTAT™ MIXING GUIDE

CONTAINER VOLUME PRODUCED	TARGET ClO ₂ PPM	WATER		HABISTAT™ ACTIVATOR		HABISTAT™ BASE 1000	
		OZ.	ML	OZ.	ML	OZ.	ML
1.0 GALLON / 3.78 LITERS	250	126	3720	1.0	30	1.0	30
	500	124	3660	2.0	60	2.0	60
2.5 GALLONS / 9.45 LITERS	250	315	9450	2.5	75	2.5	75
	500	310	9300	5.0	150	5.0	150
5.0 GALLONS / 18.90 LITERS	250	630	18600	5.0	150	5.0	150
	500	620	18300	10.0	300	10.0	300

DOSING INSTRUCTIONS

Dosing instructions and systems vary dependent upon the hygiene application. See the Acepsis™ HabiStat™ Mixing Guide for an explanation of features and recommendations based upon individual system needs.



PART # DESCRIPTION

- ACE404** HabiStat™ ACTIVATOR – 4 X 1 GAL (3.8 L)
- ACE405** HabiStat™ ACTIVATOR – 5 GAL (18.9 L)
- ACE415** HabiStat™ ACTIVATOR – 15 GAL (56.8 L)
- ACE455** HabiStat™ ACTIVATOR – 55 GAL (208.2 L)
- ACE204** HabiStat™ BASE 1000 – 4 X 1 GAL (3.8 L)
- ACE205** HabiStat™ BASE 1000 – 5 GAL (18.9 L)
- ACE215** HabiStat™ BASE 1000 – 15 GAL (56.8 L)
- ACE255** HabiStat™ BASE 1000 – 55 GAL (208.2 L)
- ATAB20G100** HabiStat™ Tablets –
10 pack x 20 grams, 100 Tablets
- ATAB100G50** HabiStat™ Tablets –
5 pack x 100 grams, 50 Tablets

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.