



# PROBIOTICS IN PROGRESS

## POULTRY FACILITIES

**Chrisal** Using probiotic cleaners to create a safe and healthy environment

### PIP ANIMAL HOUSING CLEANER

#### DIRECTIONS FOR USING AHC

- » 1. Clean the barn of bulky waste and old bedding material.
- » 2. Dilute the AHC with water at a rate of 5 parts AHC with 95 parts water (5%). Ideal water temperature is approx. 40°C, water not to be hotter than 60°C (140°F).
- » 3. Use a foaming attachment on the pressure washer to evenly distribute foam over the entire area of floor, walls, and equipment, including feeders and drinkers.
- » 4. Let foam sit for 10-15 minutes, then rinse with clean water.
- » 5. Use a floor squeegee or shop vac to remove the standing water. This removes the contaminates in the waste water.



#### WATERLINE / TANK CLEANING

When no animals are drinking from the water system, fill water lines / water tanks with 1 % AHC solution and let sit overnight then flush. Prior to letting animals use the water lines, flush thoroughly to remove any biofilm that has been loosened. Do not let animals drink this flushed waste water as biofilm can be toxic. After cleaning with AHC, Water Plus can be added into water lines to keep them clear of biofilm when the animals are drinking (from the water lines).



#### NOTES

- » Shake the product before using—the probiotic bacteria settle out if undisturbed for several days.
- » Water temperature 20°C (70°F) - 60°C (140°F) maximum. Under 10 C° causes probiotic bacteria to become less active.
- » Coverage - One liter of AHC usually covers approx 100 m<sup>2</sup> (1000 ft<sup>2</sup>) depending upon the foamer.
- » A layer of probiotic bacteria will remain on surfaces even after rinsing and remain active for 3-5 days if temperatures are above 10°C.
- » Adding water to AHC 'activates' the dormant probiotic bacteria. The bacteria expire 3-5 days after activated. Therefore only mix enough product to be used within one or two days.
- » Do not add water into concentrate container.
- » Foam everything – walls, water lines, drinkers, feeding trays, fans, doorways, ledges—leave no dust.
- » Un-diluted concentrate is shelf stable for two years. Do not let freeze or expose to direct sunlight.
- » AHC is non-toxic and non-corrosive.
- » AHC is environmentally friendly.
- » If disinfectant products must be used – use them prior to using PIP Products. Allow areas to dry thoroughly before PIP Products are applied (once most disinfectants are dry, they become inert and will not harm the bacteria).



**CHOICE PROBIOTICS**

—THE SAFE NATURAL SOLUTION—

**FULL LINE OF PRODUCTS**

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## PIP ANIMAL HOUSING STABILIZER

### DIRECTIONS FOR USING AHS

- » 1. Use a backpack sprayer, fogger or overhead misting system that will evenly distribute a fine mist of product over the bedding, birds and drinkers and feeders.
- » 2. Dilute 1 Liter of AHS with 200 ml of warm water per 400 m<sup>2</sup> (4300 sq ft) of barn area . If needed, add only enough additional water to 'extend' the AHS so that the mixture can be evenly distributed over the allocated area.
- » 3. Variables such as sprayer type, humidity, and speed of walking, can affect the amount of water needed to get proper coverage. Do not make areas wet. The goal is to apply AHS sparingly and with minimal water.
- » 4. Apply a very fine, light mist several feet up into the air, allowing it to drift down.
- » 5. The application schedule is every three days for adult birds, daily for heavy contamination. For new chicks: mist the litter one full day before chicks arrive. Mist over chicks and area upon arrival and daily for the first week, then mist every three days.



### PIP WATER PLUS

After cleaning waterline/tanks with AHC, PIP water Plus is used to prevent biofilm from building up when animals are drinking from the water system. Water Plus can be introduced into the water lines with a dosing system. Dilution Rate: 100 ml Water Plus for each 1000 L of water. pH Range: 5.5 – 9.0 Temperature Range 5° C -70° C. Biocides must not be used in water with the Water Plus.

### NOTES



- » Shake the product before using—probiotic bacteria settle out if undisturbed for several days.
- » Water temperature – Between 10 °C (50°F) and 60°C (140°F) not hotter.
- » Storage – Do not let Chrisal products freeze or be exposed to direct sunlight.
- » Coverage – Use one liter of AHS per 400 sq. meter (4300 sq. ft) this insures sufficient probiotic bacteria are placed on surfaces to properly displace the harmful bacteria. Add only enough water to allow you to obtain the recommended coverage.
- » Using overhead misting systems, hand sprayers, battery powered backpack, or foggers, apply in a very light mist up in the air allowing it to drift down onto the birds, bedding and all equipment. Do not make surfaces wet.
- » Mix only what you need - adding water to the AHS 'activates' the dormant probiotic bacteria. The 'activated' bacteria expire 3-5 days after water is added to them. Dilute only the product that will be used immediately.
- » AHS is non-toxic, non-corrosive
- » AHS is environmentally friendly – contains only water and stabilized (dormant) probiotic bacteria.
- » If disinfectant products must be used – use them prior to AHS use. Allow disinfected areas to dry thoroughly before AHS is applied. Once most disinfectants have dried they become inert and will not harm bacteria.
- » Wash hands with PIP Probiotic Hand Soap to reduce cross contamination and remove barn odours from skin.

