



**HYSOLV®  
Ltd.**

International expertise in Biosecurity



# Inter Aquades®

## PRODUCT INFORMATION SHEET

Suitable for use in the following environments:



### Inter Aquades

- ◆ Drinking water disinfection
- ◆ Water systems disinfection
- ◆ Removes slime deposits (bio-film)
- ◆ Effective against bacteria/algae/fungi
- ◆ Contains a natural aromatic compound

Inter Aquades sanitizes the water system between flocks and can be used in the drinking water. Inter Aquades has been laboratory tested and proved effective against; *S. aureus*, *S. faecium*, *Salmonella*, *Lactobacillus*, *P. aeruginosa*, *E. coli*, *Citrobacter ssp.* Green algae. *Candida albicans*

**ACTIVE INGREDIENTS: Benzalconium chloride, Propan-2-ol**

### Applications

Inter Aquades is suitable for use in water systems of poultry houses, piggeries, cattle stalls, sheep housing and horse stables

### Directions for use

#### 1. Water system (empty housing - header tank)

**1% Inter Aquades solution (100ml of product added per 10 litres water)**

**Header tank system:**

1. Drain down the water system, physically clean header tank removing any debris and sediment then disinfect with 1% Inter Aquades.
2. Refill the system with 1% Inter Aquades to the required volume (as a guide approximately 200ml is required per metre of nipple line).
3. Open the end taps of the drinker lines.
4. Flush through until Inter Aquades appears at the line end.
5. Turn off the line end taps leaving the system to disinfect for 24 hours.
6. After the disinfection process has been completed, care should then be taken to flush the system thoroughly prior to re-stocking the poultry house in order to remove remaining disinfectant, micro-organism debris and remains of any bio-film.

#### 2. Water system (empty housing - proportioner)

**1% Inter Aquades solution (100ml of product added per 10 litres water)**

**Water proportioner (such as Dosatron®):**

1. Calculate the required volume of water needed to fill the system.
2. Set the proportioner to 2%
3. Dilute Inter Aquades 1:2 with in a small plastic drum and ensure the water supply to the proportioner is turned on.
4. Open the end taps of the drinker lines.
5. Flush through until Inter Aquades appears at the line end.
6. Turn off the line end taps leaving the system to disinfect for 24 hours. After the disinfection process has been completed, care should then be taken to flush the system thoroughly prior re-stocking the poultry house in order to remove remaining disinfectant, micro-organism debris and remains of any bio-film.

### Water sanitisers and the use of water soluble "blue dye"

In order to optimise the administration of Inter Aquades at the end-of-cycle it is useful to add an approved "blue dye" to the disinfectant. This will help ensure that the system is initially filled with disinfectant, and later show that the system is fully drained.



### Germany – tests according to the German Veterinary Association (DVG) guidelines

Summary: Suspensions of test bacteria in the ranges 2 x 10<sup>8</sup> – 2 x 10<sup>9</sup> cfu/ml are exposed to water sanitisers for up to 4 hours. The viability of the bacteria suspensions was tested at 5, 15, 30, 60, 120 and 240 minutes. The bacterial colonies have to be 100% dead for the sanitiser to have been deemed effective. A negative control containing no sanitiser and positive control containing a 0.1% phenol solution was used. (The negative controls were viable for all samples).

#### Results summary:

Bacteria	Conc%	Exposure Time in Minutes					
		5	15	30	60	120	240
Enterococcus Faecium	0.5	-	-	-	-	-	-
	0.1	-	-	-	-	-	-
Control	+ve	+	+	+	+	-	-
Pseudomonas Aeruginosa	0.5	-	-	-	-	-	-
	0.1	+	-	-	-	-	-
Control	+ve						
Escherichia Coli	0.5	-	-	-	-	-	-
	0.1	+	-	-	-	-	-
Control	+ve	+	+	+	+	-	-
Salmonella Typhimurium	0.5	-	-	-	-	-	-
	0.1	-	-	-	-	-	-
Control	+ve	-	-	-	-	-	-
Salmonella Enteritidis	0.5	-	-	-	-	-	-
	0.1	-	-	-	-	-	-
Control	+ve	-	-	-	-	-	-

### South Africa – tests below were conducted by the South African Bureau of Standards

Summary: The product was tested in accordance with Subsection 6.2 of SABS 636-1971. Each dilution will kill at least 99.9% of test bacteria after an exposure of 5 minutes.

Bacteria	Conc %	Exposure (mins)	Kill Rate
P. Aeruginosa	1%	5	>99.9%
E. Coli	1%	5	>99.9%
S. Aureus	1%	5	>99.9%
Ent. Cloacae	1%	5	>99.9%
Pr. Mirabilis	1%	5	>99.9%
Streptococcus	1%	5	>99.9%
Salmonella	1%	5	>99.9%
M. Luteus	1%	5	>99.9%
Corynebacterium	1%	5	>99.9%
B. Subtilis (spores)	1%	5	>99.9%
C. Albicans	1%	5	>99.9%
A. Niger	1%	5	>99.9%

South Africa – further tests were conducted by the University of Pretoria.

**Summary of NCD test:** Suspensions of NCD were exposed to 1% and 0.5% dilution of Inter Aquades for 20 minutes. At the end of the test all NCD viruses were completely inactivated.

**Summary of MG test:** a viable culture of Mycoplasma Gallisepticum (MG) was exposed to a 1% and 0.5% dilutions of Inter Aquades for 20 minutes. At the end of the test the MG culture was completely inactivated.

**Pack sizes:**  
1 Litre, 10 Litre

Hand protection:	Protective rubber gloves e.g. Nitril
Eye protection:	Glasses with side protection, or Basket eye glasses

### Use Biocides Safely

When using/working with concentrated disinfectants do not eat, drink or smoke. Avoid contact with the undiluted product. Wash hands after work. Always read the label and product information before use