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Aquasept™ 3.0

1 Overview

Aquasept™ 3.0 are effervescent tablets for the disinfection of hatchery water for fish and shrimp. The active ingredient in Aquasept™ is Sodium Troclosene (NaDCC)-1.97 gm per tablet. Each tablet will deliver 1 mg/l of available chlorine when dissolved in 2 tons of water.

2 Presentation

Aquasept™ 3.0 are 5.6g finished weight tablets containing 1.97gm of Sodium Troclosene, packaged in plastic tubs of 500 tablets with a shelf-life of 3 years.

3 Label Claims

Aquasept™ 3.0 is a water additive for the disinfection of water and water systems for management of disease in shrimp and fish hatchery.

4 Directions for use and dosage

The method of administration can be varied to suit the water supply system, as follows:

A. Small volume disinfection: Simply add the required number of suitable tablets to a container to achieve the required concentration. After the recommended residual time the water is free of microorganism and can be used for broodstock and larval tanks. The residual chlorine in the reservoir or stocking tanks can be measured using Free Chlorine Test Strips.

B. For sea water filtered (clear water):

1 tablet per 2 tons of filtered seawater (1 ppm of free chlorine).

C. For fresh water filtered (clear water):

1 tablet per 4 tons of filtered fresh water (0.5 ppm of free chlorine).

5. Validations and Field Trials

In validating the effectiveness of the product, trials run in Vietnam catfish hatcheries ensures that Aquasept is effective in reducing the number of bacteria in farm water:

- Total number of bacteria at 0.5ppm of Aquasept treatment in rearing water:
3,283 CFU/ml

- Total number of bacteria at 1ppm of Aquasept treatment in rearing water is:
20 CFU/ml

Where chlorination is used to produce safe water for stocking of fish and shrimp there should be:

- a residual concentration of free chlorine <0.01 mg/litre (ppm.)
- for seawater: stock fish/shrimp only after 6 hours
- for freshwater: stock fish/prawn only after 12 hours

The Aquasept™ 3.0 tablets have a double action; Firstly, the tablet releases free chlorine to kill most harmful organisms. Secondly, the tablet adjusts the acidity of the water resulting in a slight increasing of the acidity levels in the gut of the fish which in-turn activates stomach enzymes to promote more efficient food conversion. In addition, the gut acidification decreases the ability of pathogens to grow in the digestive tract.