

AGMIN NEWSLETTER No. 236

CUPRICIDE®

For Use in Shrimp Farming

Agmin Cupricide® is suitable for use as an Algicide to treat water used for shrimp ponds and hatcheries. Cupricide is a registered NRA product, when used accordingly to the Directions on the label. Please refer to the product label for directions of use and safety information.

Cupricide may aid in the cure and control of commonly found diseases in shrimp including bacterial and gill diseases, tail ulcers and protozoan infections.

Initial application of Cupricide should be via the shoreline to avoid trapping aquatic livestock in shallow water. Treat only 1/3 to 1/4 of the water surface at a time to avoid oxygen depletion in the water which is caused by decaying vegetation.

It is important to keep the copper concentration to the minimum effective level in waters which are used to grow aquatic livestock. Copper toxicity varies with the type of species and with the water quality characteristics. The toxicity of copper towards aquatic livestock is enhanced in soft or acidic waters and decreases as water hardness increases.

Cupricide should not be used in the rare cases where water hardness is less than 50ppm (measured as grams of calcium carbonate). Also, water with a temperature of below 16°C should not be treated with Cupricide.

For YOUNG SHRIMP

To maintain water colour and inhibit algal growth:

Use 0.5ppm

(equivalent to 0.5ml in 1000L of water)

If water colour is normal, continue to apply Cupricide after 5-7 days, at a low dose/frequent application method.

To induce moulting:

Use 0.5ppm and continue after 5-7 days.

(equivalent to 0.5ml in 1000L of water)

For ADULT SHRIMP

To maintain water colour and inhibit algal growth:

Use 1.2 - 1.7ppm, one application every 1-2 weeks

(equivalent to 1.2 - 1.7ml in 1000L of water)

To induce moulting:

Use 1.2ppm, one application every 1-2 weeks.

(equivalent to 1.2ml in 1000L of water)



OTHER APPLICATIONS

To maintain water quality, reduce 'off' flavour and lower bacterial and parasitic loads:

Add 2.0ml per 1000L of water and apply every 30 days as required.

Disease prevention:

Use 2.0ml per 1000L of water every 102 weeks as a preventative measure for:

Bacterial/Algal disease, Mould Infection, Black and/or Red gill disease, Tail ulcers, and Protozoa infections.

Disease treatment:

Use 1.5 - 2.0ml per 1000L of water during the early stages of the infection. After 2-3 days use 1.0 - 2.0ppm concentration again.

When the disease is under control, revert to a prevention concentration of 1.0ppm.

To eliminate heavy filamentous algal infestation (such as *Cladophora*, *Chlorella*, etc):

Use 1.0 – 2.5ml per 1000L of water. Treatment should be completed 2 or 3 times and once algae starts to die and turn a yellow colour, remove the dying algae from the water manually.

Eel Ponds:

Use 1.5 – 2.0ml per 1000L of water to improve water quality, reduce 'off' flavour and lower bacterial parasitic loads.

Fish ponds:

Refer to Eel ponds.

NOTE: do not treat fish ponds with Cupricide unless the water hardness is more than 50ppm to prevent copper toxicity to fish.

Remember to dilute required amount of Cupricide with 10 times the required volume of water and spray the diluted mixture.

Safety Directions (as per label)

The product may irritate the eyes and skin. Avoid contact with skin and eyes. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Agmin Chelates Pty. Ltd. shall not be subject to any liability with regard to this sale, or the manufacture, storage, handing, application or use of this product whether such liability is implied or imposed by legislation or the general law. The buyer assumes risk of use of this material when the use is contrary to label instructions. Read and follow label directions carefully.



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