



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 25, 2018

Abigail T.D. Wacek  
Regulatory Consultant to  
Aquagenics Technologies, Inc.  
DBA Northern Biotechnologies LLC  
2764 Golfview Drive  
Naperville, IL 60540

Subject: Notification per PRN 98-10 – *Update company name and include optional text*  
Product Name: **Algaecide 4.5**  
EPA Registration Number: 88999-3  
Application Date: 12/22/17  
Decision Number: 538299

Dear Ms. Wacek:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, please contact Stacey Grigsby by phone at 703.305.6440, or via email at [grigsby.stacey@epa.gov](mailto:grigsby.stacey@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Stacey Grigsby".

Stacey Grigsby  
Regulatory Risk Manager, 34  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

## NOTIFICATION

88999-3

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/25/2018

# ALGAECIDE 4.5

[Aquarium Algaecide]

[Pond Algaecide]

[Products / designed / developed / with the / for the / specialist / in mind]

*{Administrative note: This Master Label contains use directions for various size containers and may be marketed as sub-labels with some or all of the use sites given on this label}*

[Benefits:]

[Controls many types of algae in freshwater aquariums / marine aquariums / reef aquariums / saltwater aquariums / water gardens / container water gardens / Koi and goldfish ponds / ornamental fountains / containing live plants and fish]

[Controls many types of algae in marine and reef aquariums containing live corals, invertebrates and fish]

[Controls many types of algae in freshwater aquariums / marine aquariums / reef aquariums / saltwater aquariums / water gardens / container water gardens / Koi and goldfish ponds / ornamental fountains / while keeping water clean and clear]

[For use in aquariums / ponds / fountains / containing live plants and fish]

[Will not harm live plants and fish in aquariums/ ponds/ fountains]

[Effectively controls "green water" algal blooms / String or Hair algae (*Cladophora*) / Blanketweed (*Oedogonium*) /

Green algae]

[Effectively controls many types of algae on aquarium glass, ornaments and plants]

**[Effectively controls "green water" algal blooms as well as many types of algae on aquarium glass, ornaments and plants]**

[Helps resolve algae problems]

[Controls algae growth in aquariums]

[Reduces aquarium maintenance]

[Controls many types of algae in outdoor, indoor, and table-top ornamental fountains]

[Keeps freshwater aquariums / marine aquariums / reef aquariums / saltwater aquariums / Koi ponds and goldfish

ponds / ornamental ponds / water gardens / fountains / clean and clear]

[Helps remove Red Slime / Red Slime algae]

[Does not alter the pH]

[Does not discolor the water or cause foaming]

[Does not contain copper]

[Will not harm / live / aquatic / pond / aquarium / plants / and / or / koi / goldfish / freshwater / or / saltwater / marine / fish / (Following text authorized only for saltwater product offerings) / and / or / corals / and / or / other / invertebrates]

(Following bullet authorized only for saltwater (name of the product) offering)

[ When used / in salt water / containing / will not harm / snails / clams / scallops / shrimp / anemones / sea cucumbers / coralline algae / feather dusters / corals / soft corals / hard corals / and other invertebrates ]

ACTIVE INGREDIENT: Poly [oxyethylene (dimethyliminio) ethylene (dimethyliminio) ethylene dichloride] 4.5%

OTHER INGREDIENTS: 95.5%  
Total: 100.0%

### CAUTION

#### KEEP OUT OF THE REACH OF CHILDREN

See back panel for precautionary and first aid statements.

[See blister card for precautionary and first aid statements, directions for use and storage and disposal information. Do not throw blister card away.]

[See pullout label for precautionary / first aid statements / directions for use / storage and disposal information]

*{Administrative Note: Wording found above the double line may appear on the front panel of the various sub-labels}*

1 oz. [Treats 300 U.S. gallons (1,134 l) / of / fresh / or / salt / water]  
1.2 oz. [Treats 370 U.S. gallons (1,399 l) / of / fresh / or / salt / water]  
4 oz. [Treats 1,200 U.S. gallons (4,536 l) / of / fresh / or / salt / water]  
6 oz. [Treats 1,800 U.S. gallons (6,804 l) / of / fresh / or / salt / water]  
8 oz. [Treats 2,400 U.S. gallons (9,072 l) / of / fresh / or / salt / water]  
9.6 oz. [Treats 2,880 U.S. gallons (10,900 l) / of / fresh / or / salt / water]  
10 oz. [Treats 3,000 U.S. gallons (11,340 l) / of / fresh / or / salt / water]  
16 oz. [Treats 4,800 U.S. gallons (18,144 l) / of / fresh / or / salt / water]

32 oz. [Treats 9,600 U.S. gallons (36,288 l) / of / fresh / or / salt / water]  
64 oz. [Treats 19,200 U.S. gallons (72,576 l) / of / fresh / or / salt / water]  
1 gal. [Treats 38,400 U.S. gallons (145,152 l) / of / fresh / or / salt / water]  
2½ gal. [Treats 96,000 U.S. gallons (362,880 l) / of / fresh / or / salt / water]

Benefits: / (name of the product) effectively controls these types of [freshwater] algae: Green or Green water algae (*Chlorella*) / Blue-Green algae (*Aphanizomenon*) / Black Beard algae (*Audouinella*) / String or Hair algae (*Cladophora*) / Blanket weed (*Oedogonium*) / in freshwater aquariums / ornamental ponds / fountains / containing live plants and fish.]

[ Benefits: / (name of the product) effectively controls these types of [ saltwater] algae: Green algae (*Cladophora*) / "Red Slime" (*Oscillatoria* / *Spirulina major*) / Brown Algae" (*Cyclotella*) / in marine aquariums / reef aquariums / saltwater aquariums / containing live corals, invertebrates and fish.]

[Algal growth can appear as "green water" blooms / filamentous algae on plants / floating algal mats (blanket weed) / [algae / brown] growth on aquarium glass / ornaments / rocks / fountains / waterfalls. ]

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*{To maintain segmentation between individual brand names, four sets of "Directions" are provided. One of the following statements will be used on each applicable label}*

*Directions For Use for aquarium label}*

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

[for indoor aquarium use only][ The most effective use of (name of the product) is achieved by first cleaning the aquarium glass and ornaments. Trim plant leaves that are covered with algae. For best results remove activated carbon during treatment. ] Add [ 20 drops / [(1 ml)] / [(1/5 tsp.)]/ for each 10 U.S. gallons (38 L) / [(5 ml) / [(1 / teaspoon / tsp.)] / for each 50 U.S. gallons (190 L) / [(2 / teaspoons / tsp. )]/ [(10 ml) / for each 100 U.S. gallons (378 L) / [(10 / teaspoons / tsp. )]/ [(50 ml)] / for each 500 gallons (1890 L) / [(4 cup )] [(60 ml) for each 600 gallons (2275 L) / [(20 / teaspoons / tsp. )]/ [(100 ml)] / for each 1,000 gallons (3780 L) / [(1 1/2 cup)] [(120 ml)] for each 1200 gallons (4536 L) / [(2 cups)] [(480 ml)] for each 4800 gallons (18144 L)] of aquarium water. Repeat dose every [three / 3] days until algae is controlled. Siphon or scrape any dead algae from aquarium. Once algal growth is under control, add one dose per week. Weekly doses of (name of the product) will control algal growth and reduce aquarium maintenance. CAUTION: Do not use (name of the product) with freshwater crustaceans, including: shrimp, crabs and lobsters.

*Directions For Use {for saltwater label}*

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

[The most effective use of (name of the product) is achieved by first cleaning the aquarium glass and ornaments. For best results remove activated carbon during treatment. ] Add [ 20 drops / [(1 ml)] / [(1/5 tsp.)]/ for each 10 U.S. gallons (38 L) / [(5 ml)] / [(1 / teaspoon / tsp.)] / for each 50 U.S. gallons (190 L) / [(2 / teaspoons / tsp. )]/ [(10 ml) / for each 100 U.S. gallons (378 L) / [(10 / teaspoons / tsp. )]/ [(50 ml)] / for each 500 gallons (1 890 L) / [a—cup ] [(60 ml) for each 600 gallons (2275 L) / [(20 / teaspoons / tsp. )]/ [a100 ml)] / for each 1000 gallons (3780 L) / [(1 1/2 cup)] [a120 ml)] for each 1200 gallons (4536 L)/[02cups[A480m1D]for each 4800 gallons(18144 L)] of aquarium water. Repeat dose every [three / 3] days until algae is controlled. Siphon or scrape any dead algae from aquarium. Once algal growth is under control, add one dose per week. Weekly doses of (name of the product) will control algal growth and reduce aquarium maintenance.

Directions For Use (*for pond label*)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For ornamental/synthetically lined / pond and fountain use only, where all water is contained without any outflow. Warm weather caution: Before using (name of the product), make certain that the pond has vigorous aeration, i.e., a fountain, waterfall, or aeration device to avoid fish loss due to low oxygen levels. When algae is controlled and removed by the filter or settles to the bottom of the pond, the oxygen level may drop to harmful levels if adequate aeration is not provided. Therefore, when using (name of the product) during warm weather and high water temperatures, vigorous, 24 hour aeration is required.

Do not shut off pond pumps and aeration devices at night. Add [(5 ml)] / [(1 / teaspoon / tsp.)] / for each 50 U.S. gallons (190 L) / [(2 / teaspoons / tsp. )] / [(10 ml)] / for each 100 U.S. gallons (378 L) / [(10 / teaspoons / tsp. )] / [50 ml] / for each 500 gallons (1890 L) / [(1 1/4 cup )] [060 ml] for each 600 gallons (2275 L) / [(120 / teaspoons / tsp. )] / [(100 ml)] / for each 1000 gallons (3780 L) / [(1 cup)] [0120 ml] for each 1200 gallons (4536 L) / [(2 cups)] [(1480 ml)] for each 4800 gallons (18144 L) of [pond / fountain] water. Thoroughly mix (name of the product) into [pond / fountain] water by adding near the pump outflow, waterfall, or aeration device. (name of the product) can be mixed in a bucket of [pond / fountain] water and dispersed evenly around the [pond / fountain]. Repeat dose every [three / 3] days until algae is controlled. Be prepared to siphon out dead filamentous algae. Once algal growth is under control, add one dose per week. Weekly doses of (name of the product) will control algal growth and reduce [pond / fountain] maintenance. CAUTION: Do not use (name of the product) with freshwater crustaceans, including: shrimp, crabs and lobsters.

Directions For Use (*for fountain label*)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For best results start with a clean fountain. Scrub away algae and dirt, rinse, and fill with clean water. Add [ 20 drops / [(1 ml)] / [(115 tsp.)] / for each 10 U.S. gallons (38 L) / [(5 ml)] / [(1 / teaspoon / tsp.)] / for each 50 U.S. gallons (190 L)] of water. Repeat dose once a week to keep fountains clean and clear. Add a dose of (name of the product) every time you change water in the fountain. Weekly doses of (name of the product) will control algal growth and reduce fountain maintenance.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:**

Concentrated product is harmful to fish and other aquatic organisms, please follow labeling directions carefully.

## FIRST AID:

### IF ON SKIN or CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor immediately for treatment advice.

### IF IN EYES:

- Hold eye open and rinse slowly with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

### IF SWALLOWED:

- Call a poison control center or doctor for treatment advice.
- Have a person slip a glass of water, if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal

**STORAGE:** Keep product dry in tightly closed container when not in use. Store in a cool dry well ventilated area away from heat and open flame.

**DISPOSAL:** Nonrefillable container. If empty, Do not reuse or refill this container. Offer for recycling if available. If partly filled, call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

EPA Reg. No. 88999-3

EPA Est. No.

Mfg. by:

Aquagenics Technologies, Inc. dba

Northern Biotechnologies LLC

2764 Golfview Drive

Naperville, IL 60540

St. Charles IL, 60174

Made in USA

*(Administrative note: any language which appears between { and is italicized will NOT appear on final printed labels. Any language that appears between [ ] and/or is separated by a front slash ( / ) is considered interchangeable language and may not appear on final printed labeling)*