

88999-4

1/13/2014

1/23



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511C)
1200 Pennsylvania Avenue NW
Washington, DC 20460

EPA Reg. Number:
88999-4

Date of Issuance:
JAN 13 2014

Term of Issuance: Unconditional

Name of Pesticide Product:
Peroxy Tech Granular

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Robert Brennis
Northern Biotechnologies, LLC
2764 Golfview Drive
Naperville, IL 60540

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If the EPA determines at any time that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is unconditionally registered in accordance with FIFRA Section 3(c)(5) and is subject to the following terms:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 88999-4."
3. Submit three (3) copies of the revised final printed labeling before you release the product for shipment.

A stamped copy of the label and an A-79 Enclosure are enclosed for your records.

Signature of Approving Official:

Robert McNally, Director
Biopesticides and Pollution Prevention Division (7511P)

Date:

1/13/14

EPA Form 8570-6

CONCURRENCES

SYMBOL	▶ 7511P	7511P	7511P				
SURNAME	▶ Burnett	Harris	LEAHY				
DATE	▶ 1/2/2014	1-9-14	1/13/14				

Peroxy Tech Granular

Aquatic and Surface Uses

ACCEPTED

JAN 13 2014

Active Ingredient:

Sodium Carbonate Peroxyhydrate*.....42.50%

Other Ingredients:.....57.50%

Total:.....100.00%

*This product is equivalent to 13.80% Hydrogen Dioxide by weight.

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under

EPA Reg. No. 88999-4

**KEEP OUT OF REACH OF CHILDREN
DANGER**

FIRST AID

If in eyes

- Hold eye open and rinse slowly and gently 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 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 for treatment advice.

If swallowed

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If inhaled

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

See (back) (side) panel for additional precautionary statements and directions for use.

EPA Registration No: 88999-4 EPA Establishment No: 88999-IL-01

Net Contents: (0.5, 1, 2, 8, 20 or 50 lbs.)

PRECAUTIONARY STATEMENTS

ACCEPTED

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or shielded safety glasses). Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing dust. Wash thoroughly with soap and water immediately after handling. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT(PPE)

Applicators and handlers must wear:

- Protective eyewear (goggles, face shield or shielded safety glasses)
- Coveralls over long-sleeved shirt, long pants
- Chemical resistant footwear plus socks
- Chemical resistant gloves

Follow manufacturer's instructions for cleaning/maintaining PPE . If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
 - Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. Do not contaminate water when cleaning equipment or disposing of equipment wash water or rinsate. Peroxy Tech Granular is **NOT** intended for USE in drinking water. This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply this product or allow it to drift to crops where beneficial insects are part of an integrated pest management strategy.

PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. **Corrosive.** Do not bring in contact with other pesticides, cleaners or oxidative agents.

DIRECTIONS FOR USE

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State, consult the State agency responsible for pesticide regulation.

During amphibian breeding seasons, do not apply near shallow water body margins.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

For enclosed environments:

There is a restricted entry of one (1) hour for this product when applied via spraying or foaming on hard surfaces in enclosed environments.

PPE requirement for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water), is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

There is a restricted entry of zero (0) hours for spreading, broadcasting, spot treatment, injection or other non-spraying or non-foaming application methods when used in enclosed environments.

For water treatment and applications in non-enclosed environments:

Keep unprotected persons out of treated areas until sprays have dried or dusts have settled.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried or dusts have settled.

Apply Peroxy Tech Granular to any listed water or surface sites. Do not apply this product through any type of irrigation system.

APPLICATION SITES:***WATER SURFACES***

Ponds, Lakes, Lagoons, Fish Ponds, Stock Tanks, Water Gardens, Ornamental Pools/Ponds, Ornamental Waterfalls, Fountains, Golf Course Ponds, Industrial/Commercial Ponds, Impounded Waters, Standing Water, Bilge Water, Reservoir Water, Waterways, Conveyance Ditches, Canals, Laterals, Drainage Systems, Irrigation Ponds, Greenhouse and Nursery Recycled Water Systems, Evaporative Coolers, Hydrocoolers, Humidification Systems, Dump Tanks, Catch Basins, Flooded Areas, Sewage Systems, Waste Treatment Lagoons, Dairy Lagoons, RV Holding Tanks, Drain Fields, Fire Ponds, Watering Tanks and Troughs, Storage Tanks, Water Collectors and Domestic/Commercial Waters

Peroxy Tech Granular is **NOT** intended for use in drinking water.

NON-PAINTED SURFACES

Floors, Walkways, Storage Areas, Patios, Decks, Railings, Wood Structures, Roofs, Asphalt Shingles, Siding, Fiberglass, Boats, Piers, Docks, Stairs, Ramps, Ground Cover Mats, Weed Control Mats, Animal Bedding and Litter, Concrete, Brick, Stone, Landscape Pavers, Tile, Slate, Granite, Statues/Monuments, Outdoor Furniture, Tennis Courts (non-grass), Nursery Yards, Shorelines, Gravel, Dirt Floors, Under Benches

TURF APPLICATIONS

Landscapes, Turf, Lawns, Greens, Fairways, Residential Lawns, Well Established Turf Grass.

WATER TREATMENT

Use Peroxy Tech Granular to treat, control, and prevent a broad spectrum of algae. Effects of treatment are immediately apparent (bubbling, bleaching/discoloration of algae, floating of dead organic matter). Waters treated with Peroxy Tech Granular are permissible to be used without interruption.

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DETERMINING WATER VOLUME

Measure length (L), width (W), and average depth (D) in feet (ft) or meters (m) and calculate volume using one of the following formulas:

Square/Rectangular:

$$L(ft) \times W(ft) \times D(ft) \times 7.5 = \text{Gallons}$$

$$L(m) \times W(m) \times D(m) \times 1000 = \text{Liters}$$

Circular/Elliptical:

$$L(ft) \times W(ft) \times D(ft) \times 5.9 = \text{Gallons}$$

$$L(m) \times W(m) \times D(m) \times 786 = \text{Liters}$$

1 acre-foot of water =

- water measuring 208.7 ft long x 208.7 ft wide x 1 ft deep
- 43,560 cubic feet
- 325,851 gallons
- 2,780,000 pounds

Avg. Length (ft) x Avg. Width (ft) x Avg. Depth (ft)

$$43,560 = \text{acre-feet of water}$$

Avg. Length (ft) x Avg. Width (ft)

$$43,560 = \text{acres}$$

APPLICATION RATES (for 2, 8, 20 and 50 lb. container sizes)

General Treatment Rates:

	HEAVY ALGAE GROWTH	LOW ALGAE GROWTH / MAINTENANCE
GRANULAR million	90-500 pounds of Peroxy Tech Granular per million gallons of water.*	9-50 pounds of Peroxy Tech Granular per million gallons of water.
	-or-	-or-
	30-170 pounds of Peroxy Tech Granular per acre-foot of water*.	3-17 pounds of Peroxy Tech Granular per acre-foot of water.

For example: Lakes, ponds, lagoons.

*Multiple containers of Peroxy Tech Granular will be needed.

GRANULAR: Sm. Volume	3-16 tablespoons of Peroxy Tech Granular per 1000 gallons of water. (16 Tbs.=1 Cup) (2 Cups = 1 lb.)	1-5 teaspoons of Peroxy Tech Granular per 1000 gallons of water. (3 tsp. = 1 Tbs.)
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For example: Indoor or outdoor water gardens, fountains, ornamental waterfalls

Rates for Treating String Algae:

POND SIZE	CURATIVE RATE
50-gallons	1 Tablespoon
100-gallons	1.5 Tablespoons
500-gallons	0.5 Cup
1,000-gallons	1 Cup
5,000-gallons	5 Cups
10,000-gallons	10 Cups

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

Application Instructions for Treating String Algae on Ornamental Waterfalls & Streams:

- Step 1: Check pH levels before applying Peroxy Tech Granular. Peroxy Tech Granular can raise pH levels up to 1 unit.
- Step 2: Apply early in the morning
- Step 3: Turn off circulation.
- Step 4: Apply Peroxy Tech Granular to affected areas - including waterfalls and streams.
- Step 5: Turn circulation back on after 10-20 minutes.

Rates for Treating Green Water Algae:

POND SIZE	HIGH CURATIVE RATE	LOW CURATIVE RATE
50-gallons	1 Tablespoon	0.5 Tablespoon
100-gallons	1.5 Tablespoons	1 Tablespoon
500-gallons	0.5 Cup	1.5 Tablespoon
1,000-gallons	1 Cup	3 Tablespoons
5,000-gallons	5 Cups	1 Cup
10,000-gallons	10 Cups	2 Cups

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

Application Instructions for Treating Green Water Algae:

- Step 1:** Check pH levels before applying Peroxy Tech Granular. Peroxy Tech Granular can raise pH levels up to 1 unit.
- Step 2:** Apply early in the morning
- Step 3:** Shock with Peroxy Tech Granular at the high curative rate.
- Step 4:** Treat as needed once per week with Peroxy Tech Granular at the low curative rate in conjunction with water conditioners (such as beneficial bacteria).

Pond Cleaning:

HEAVY GROWTH	LOW GROWTH
4-6 Cups per 1000 Square Feet	2-4 Cups per 1000 Square Feet

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

Application Instructions for Pond Cleaning:

- Step 1:** Drain pond (remove fish & plants).
- Step 2:** Apply Peroxy Tech Granular to all surfaces.
- Step 3:** Rinse with water after 10-20 minutes.
- Step 4:** Drain pond.
- Step 5:** Re-fill pond (replace fish & plants after de-chlorinating as appropriate).

GENERAL WATER TREATMENT NOTES

- Treat only a half or a third of any large body of water (such as lakes, ponds, lagoons) at a time. Control is most easily achieved when algae are not yet well established. Treat when growth first begins to appear. This is especially important in the prevention of clogged irrigation systems, pumps, filters etc.

- Apply early in the morning under calm, sunny conditions, and when water temperatures are warm. Sunlight and higher temperatures both enhance Peroxy Tech Granular activity; Peroxy Tech Granular will work more slowly in colder water. Apply in a manner that will insure even distribution of Peroxy Tech Granular within the treatment area.
- Dense, thick mats of algae throughout the water volume are indicative of heavy algae growth.
- Break up any heavy floating algae mats before or during application.
- Skim any dead algae and organic matter that rises to the water's surface after treatment. Allowing dead organics to sink and decay will provide a food source and additional nutrients that stimulate algae re-growth and further blooms.
- Use Peroxy Tech Granular as an integral part of your water management system. If using in conjunction with other water additives (such as bacteria or enzymes), always apply Peroxy Tech Granular first and wait several hours before adding any other products.
- Re-treat areas if re-growth begins to appear. Allow 48 hours between consecutive treatments.
- Maintain ponds with Peroxy Tech Granular maintenance rates at a frequency appropriate for your environmental conditions.
- In regions where water freezes in the winter, treatment with Peroxy Tech Granular (including skimming) 6-8 weeks before expected freeze will help prevent masses of decaying algae under the ice cover.
- After application, do not allow undiluted granules to remain in an area where humans or animals are exposed. Sweep up or remove undiluted granules. Undiluted granules may also be eliminated by thoroughly hosing down with water.
- Non-target plants will suffer contact burn if undiluted granules are accidentally spilled on them.
- Do not apply in such a way that the concentrated product comes in contact with flowering plants.
- Do not tank mix with aquatic herbicides or algaecides containing copper or bromides. Always apply Peroxy Tech Granular at least one day prior to the application of these products.
- 100 pounds of Peroxy Tech Granular per million gallons of water = 4ppm of sodium.

EFFECTIVENESS FACTORS

- Effects of Peroxy Tech Granular treatment are immediately apparent (bubbling, bleaching/discoloration of algae, floating dead organic matter).
- **Peroxy Tech Granular treatments are successful when contact of the pesticide is made with the algae.**
- Liquid applications will not sink through the water column as readily as a granular application.
- When treating surface mats and blooms, it is possible that Peroxy Tech Granular will not penetrate the water column below the infested area, and a second application is then required for treating any bottom growing algae.
- Apply more often during the summer months when water consumption and temperatures are high.

APPLICATION METHOD

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SPREADING / BROADCASTING:

Broadcast Peroxy Tech Granular with a mechanical spreader or by gloved hand, directly on the water surface, from shore or from a properly equipped boat.

SPOT TREATMENT:

Apply Peroxy Tech Granular directly over the infested area. Re-treatment is required when heavy growth occurs.

SURFACE TREATMENT

Use Peroxy Tech Granular on all listed non-painted surfaces, to prevent and control algae, moss, liver worts, and slime molds, and the odors and conditions that these organisms cause (such as the breeding grounds for pests such as shore flies and fungus gnats).

APPLICATION RATES

Non-Painted Surface Rates:

HEAVY GROWTH

4-6 Cups per 1000
Square Feet

LOW GROWTH/PREVENTATIVE

2-4 Cups per 1000
Square Feet

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

APPLICATION RATES

Ground/Surface Rates:

Square Feet	Amount Peroxy Tech Granular 2-3 lbs. per 1000 sq. ft.	Amount Peroxy Tech Granular 1-2 lbs. per 1000 sq. ft.
2.5	1/2-3/4 tsp.	1/4-1/2 tsp.
5	1-1 1/2 tsp.	1/2 - 1 tsp.
10	2-3 tsp.	1-2 tsp.
50	3-5 tbsp.	5-10 tsp.
125	1/2-3/4 cup	1/4-1/2 cup
250	1-1 1/5 cup	1/2 - 1 cup
500	2-3 cups	1-2 cups
1000	4-6 cups	2-4 cups

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

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HEAVY GROWTH

LOW ALGAE GROWTH MAINTENANCE

GRANULAR 2-3 pounds of Peroxy Tech Granular per 1000 square feet of area.
(1 lb. = 2 cups)

1-2 pounds of Peroxy Tech Granular per 1000 square feet of area.
(1 lb. = 2 cups)

Make granular applications over a wet surface or activate with water immediately following application.

LIQUID: Solution Preparation: Due to solubility limitations, it is necessary to use at least 1 gallon of water to fully dissolve each 0.5 pounds of Peroxy Tech Granular.

Dissolution of Peroxy Tech Granular in cold water takes approximately 5 minutes.

Treatment Rates: Use the same rates as the granular application given above.

FOAM: Solution Preparation: Follow the Liquid solution preparation instructions above. Add 2.0 - 5.0 fluid ounces of an alkaline-based foam per gallon of finished solution.

Treatment Rates: Use the same rates as the granular/liquid application given above.

Animal Bedding and Litter Rates for Kennels, Livestock Barns, Cages, Stalls and Holding Pens:

LIQUID: Solution Preparation: Due to solubility limitations, it is necessary to use at least 1 gallon of water to fully dissolve each 0.5 lbs. of Peroxy Tech Granular.

Dissolution of Peroxy Tech Granular in cold water takes approximately 5 minutes.

Treatment Rates: Mix 1/2 lb. of Peroxy Tech Granular in one gallon of clean water. Spray mixed solution over bedding and/or litter to be treated. Repeat as necessary or every other day to control odors.

GRANULAR: Apply 1 to 2 lbs. of Peroxy Tech Granular over 1000 sq. ft. of area to be treated, then cover with an adequate layer of animal litter or bedding, ensuring even application. Reapply at every bedding and litter change to control odors.
(1 lb. = 2 cups)

Hardscapes: Brick, Stone, and Landscape Pavers

GRANULAR: Apply 1 to 2 lbs. of Peroxy Tech Granular over 1000 sq. ft. of area. Broom sweep into cracks between bricks or pavers to prevent the emergence of weeds. Repeat as necessary. Activate Peroxy Tech Granular by thoroughly hosing down treated area with water, ensuring all granules are dissolved.
(1 lb. = 2 cups)

Dumpster and Trash Can Treatment:

GRANULAR: Use Peroxy Tech Granular to suppress/control odor-causing bacteria in dumpsters and trash cans. Sprinkle 1/2 - 1 lb. of Peroxy Tech Granular per 125 sq. ft. of surface area into the bottom of empty dumpster. Make granular applications over a damp surface or moisten with water immediately following application.
(1 lb. = 2 cups)

Moss Treatments for Lawn and Landscapes

LIQUID: Solution Preparation: Mix 1 cup of Peroxy Tech Granular with one gallon of water. Dissolution of Peroxy Tech Granular in cold water takes approximately 5 minutes.

Treatment Rates:

Mix 1 cup of Peroxy Tech Granular in one gallon of clean water. Spray solution over lawn or landscape area to be treated, ensuring complete coverage of moss surfaces. Results should

appear in 24-48 hours- moss will turn brown, indicating it is dead. Heavy moss growths may require more than one treatment. Rake dead moss and reseed treated area.

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GRANULAR: Apply 1 to 2 lbs. of Peroxy Tech Granular over 1000 sq. ft. of turf grass or landscape area to be treated. Ensure Peroxy Tech Granular is applied evenly over entire area to be treated. Peroxy Tech Granular is activated by moisture. If the ground or turf grass is dry, spray a light spray / mist of water over treated area to ensure activation. Results should appear in 24-48 hours- moss will turn brown, indicating it is dead. Heavy moss growths may require more than one treatment. Rake dead moss and reseed treated area.
(1 lb. = 2 cups)

GENERAL SURFACE TREATMENT NOTES

- Granular applications are the most effective.
- Control is most easily achieved when growth is not yet well established. Treat when growth first begins to appear.
- Apply in a manner that will insure even distribution of Peroxy Tech Granular within the treatment area.
- Dense, thick mats of algae throughout the water volume are indicative of heavy algae growth.
- Peroxy Tech Granular is water activated. Watering before application is preferred over misting after application because it prevents over watering leading to a reduced effectiveness.
- When applying Peroxy Tech Granular to soil, gravel or other similar media, incorporate the application of Peroxy Tech Granular into the first inch of substrate for optimum effectiveness.
- To maintain clean surfaces, apply Peroxy Tech Granular at maintenance rates every 5-7 days or as needed to control new or established conditions.
- After application, do not allow undiluted granules to remain in an area where humans or animals are exposed. Sweep up or remove undiluted granules. Undiluted granules may also be eliminated by thoroughly hosing down with water.
- Non-target plants will suffer contact burn if undiluted granules are accidentally spilled on them. Do not apply in such a way that the concentrated product comes in contact with flowering plants.
- Do not tank mix with aquatic herbicides or algaecides containing copper or bromides. Always apply Peroxy Tech Granular at least one day prior to the application of these products.

APPLICATION METHODS

SPREADING / BROADCASTING:

Broadcast Peroxy Tech Granular with a mechanical spreader or by gloved hand. A lawn spreader or any other applicator that will insure uniform coverage is acceptable.

SPOT TREATMENT:

Apply Peroxy Tech Granular directly over the infested area. Re-treatment is required when heavy growth occurs.

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LIQUID:

Make a solution with Peroxy Tech Granular (refer to liquid application rates). Spray this solution on the desired treatment surface. Use liquid application method for surface treatments only. Do not use liquid application method for water treatments.

FOAM:

Make a solution with Peroxy Tech Granular (refer to foam application rates). Spray this solution on the desired treatment surface. Use a foamer to apply.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

PESTICIDE DISPOSAL

Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Optional Label Claims:

- Algaecide.
- For indoor or outdoor uses.
- For use in water features containing live fish and plants.
- Eliminates algae and keeps water clear.
- Get algae-free water with Peroxy Tech Granular.
- Peroxy Tech Granular works great on ornamental streams and waterfalls.
- Removes stubborn algae from roofs, walkways, decks, and fountains.
- Great for pond-less waterfalls.
- Easy to use.
- Effective over a wide range of pH conditions.
- Reduces organic build-up and noxious odors including hydrogen sulfide.
- Controls algae blooms.
- Controls odors.
- Roof and siding cleaner.
- Kills mold and algae.
- Easy to use.
- Kills algae, moss, and mold fast.

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- Removes black stains on roofs quickly.
- Use near plants and shrubs.
- 8 lbs. will treat algae and mold stains on the roof and siding of a 2-story house.
- 8 lbs. makes 32 gallons of solution.
- 8 lbs. Peroxy Tech Granular covers 16,000 sq. ft. of surface area.
- Removes mold stains.
- Does not off-gas.
- Roofing and siding treatment.
- Works on patios, walkways, and other hard surfaces.
- Kills stubborn algae on outdoor hard surfaces.
- Treat and prevent algae in ponds, fountains and on patios, walkways, and other hard surfaces.
- Remove algae from your walkways.
- Easy application for small areas such as fountains
- Not harmful to fish when used according to label directions.
- Scoop provided for quick measuring.
- Made in the USA.
- Roof and Siding Treatment
- Moss and Algae Treatment
- Marine Algae Cleaner
- Deck and Siding Treatment Algae Treatment
- Mildew Treatment & Deodorizer
- Bilge Cleaner and Treatment
- Hardscape Treatment
- Fountain Treatment
- Bedding Treatment
- Litter Treatment
- Garbage Can Treatment
- Dumpster Treatment
- Removes odors
- Deodorizes
- Moss Treatment
- Moss Treatment for Lawns and Landscapes
- Quickly Removes Moss
- Kills Moss
- Kills Moss on Siding, Roofs, Walks, Decks and Patios
- For Lawns and Turf
- Uses no heavy metals
- Copper Free
- Chlorine Free

14/23

[Residential Sub-label]

Peroxy Tech Granular

Aquatic and Surface Uses

Active Ingredient:

Sodium Carbonate Peroxyhydrate*42.50%

Other Ingredients:.....57.50%

Total:.....100.00%

This is product is equivalent to 13.80% Hydrogen Dioxide by weight.

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

If in eyes

- Hold eye open and rinse slowly and gently 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 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 for treatment advice.

If swallowed

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If inhaled

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

See (back) (side) panel for additional precautionary statements and directions for use.

EPA Registration No: 88999-4

EPA Establishment No: 88999-IL-001

Net Contents: (0.5, 1, 2, 8, 20 or 50 lbs.)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

15/23

DANGER: Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or shielded safety glasses). Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing dust. Wash thoroughly with soap and water immediately after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. When prolonged or repeated contact may occur, use chemically resistant gloves and full body clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. Do not contaminate water when cleaning equipment or disposing of equipment wash water or rinsate. Peroxy Tech Granular is NOT intended for use in drinking water.

PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. Corrosive. Mix only with water in accordance with label instructions. Do not bring in contact with other pesticides, cleaners or oxidative agents.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. During amphibian breeding seasons, do not apply near shallow water body margins. **Corrosive.** Causes irreversible eye damage. Wear protective eyewear (goggles, face shield, or safety glasses) and gloves when applying Peroxy Tech Granular. Wash hands after use.

Apply Peroxy Tech Granular to any listed water and surface sites.

- Application surfaces include:

CONTAINERIZED WATER SURFACES (with no outflow to the natural environment)

Water Gardens, Fish Ponds, Ornamental Pools/Ponds, Ornamental Waterfalls, Fountains, Standing Water, Irrigation Ponds.

Peroxy Tech Granular is **NOT** intended for use in drinking water.

NON-PAINTED SURFACES

Floors, Walkways, Storage Areas, Patios, Decks, Railings, Wood Structures, Roofs, Asphalt Shingles, Siding, Fiberglass, Stairs, Ramps, Ground Cover Mats, Animal Bedding and Litter, Weed Control Mats, Concrete, Brick, Stone, Landscape Pavers, Tile, Slate, Granite, Statues/Monuments, Outdoor Furniture, Tennis Courts (non-grass), Shorelines, Gravel, Under Benches.

TURF APPLICATIONS

Landscapes, Residential Lawns, Well-established Turf Grass

WATER TREATMENT

Use Peroxy Tech Granular to treat, control, and prevent a broad spectrum of algae. (Optional Text: Use Peroxy Tech Granular to treat, control, and prevent a broad spectrum of planktonic and filamentous blue-green algae.) Effects of treatment are immediately apparent (bubbling,

bleaching/discoloration of algae, floating of dead organic matter) Waters treated with Peroxy Tech Granular are permissible to be used without interruption. 16/23

DETERMINING WATER VOLUME

Measure length (L), width (W), and average depth (D) in feet (ft) or meters (m) and calculate volume using one of the following formulas:

Square/Rectangular

$L(\text{ft}) \times W(\text{ft}) \times D(\text{ft}) \times 7.5 = \text{Gallons}$

$L(\text{m}) \times W(\text{m}) \times D(\text{m}) \times 1000 = \text{Liters}$

Circular/Elliptical:

$L(\text{ft}) \times W(\text{ft}) \times D(\text{ft}) \times 5.9 = \text{Gallons}$

$L(\text{m}) \times W(\text{m}) \times D(\text{m}) \times 786 = \text{Liters}$

1 acre-foot of water =

- water measuring 208.7 ft long x 208.7 ft wide x 1 ft deep
- 43,560 cubic feet
- 325,851 gallons
- 2,780,000 pounds

Avg. Length (ft) x Avg. Width (ft) x Avg. Depth (ft)

43,560

= acre-feet of water

Avg. Length (ft) x Avg. Width (ft)

43,560

= acres

APPLICATION RATES (for 2, 8, 20 and 50 lb container sizes)

General Treatment Rates:

GRANULAR: **3-16 tablespoons** of Peroxy Tech Granular **1-5 teaspoons** of Peroxy Tech Granular
Sm. Volume Granular per 1000 gallons of water. per 1000 gallons of water.
(16 Tbs. = 1 Cup) (2 Cups = 1 lb.) (3 tsp. = 1 Tbs.)

For example: Backyard water gardens, ornamental ponds, ornamental waterfalls

	HEAVY ALGAE GROWTH	LOW ALGAE GROWTH / MAINTENANCE
GRANULAR million	90-500 pounds of Peroxy Tech Granular per million gallons of water.*	9-50 pounds of Peroxy Tech Granular per million gallons of water.
	-or-	-or-
	30-170 pounds of Peroxy Tech Granular per acre-foot of water*.	3-17 pounds of Peroxy Tech Granular per acre-foot of water.

For example: Larger containerized residential ponds or water gardens

*Multiple containers of Peroxy Tech Granular will be needed.

Rates for Treating String Algae:

POND SIZE	CURATIVE RATE
50-gallons	1 Tablespoon
100-gallons	1.5 Tablespoons
500-gallons	0.5 Cup
1,000-gallons	1 Cup
5,000-gallons	5 Cups
10,000-gallons	10 Cups

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

Application Instructions for Treating String Algae on Ornamental Waterfalls & Streams:

- Step 1:** Check pH levels before applying Peroxy Tech Granular. Peroxy Tech Granular can raise pH levels up to 1 unit.
- Step 2:** Apply early in the morning
- Step 3:** Turn off circulation.
- Step 4:** Apply Peroxy Tech Granular to affected areas - including waterfalls and streams.
- Step 5:** Turn circulation back on after 10-20 minutes.

Rates for Treating Green Water Algae:

POND SIZE	HIGH CURATIVE RATE	LOW CURATIVE RATE
50-gallons	1 Tablespoon	0.5 Tablespoon
100-gallons	1.5 Tablespoons	1 Tablespoon
500-gallons	0.5 Cup	1.5 Tablespoon
1,000-gallons	1 Cup	3 Tablespoons
5,000-gallons	5 Cups	1 Cup
10,000-gallons	10 Cups	2 Cups

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

Application Instructions for Treating Green Water Algae:

- Step 1:** Check pH levels before applying Peroxy Tech Granular. Peroxy Tech Granular can raise pH levels up to 1 unit.
- Step 2:** Apply early in the morning
- Step 3:** Shock with Peroxy Tech Granular at the high curative rate.
- Step 4:** Treat as needed once per week with Peroxy Tech Granular at the low curative rate in conjunction with water conditioners (such as beneficial bacteria).

Pond Cleaning:

HEAVY GROWTH	LOW GROWTH
4-6 Cups per 1000 Square Feet	2-4 Cups per 1000 Square Feet

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

Application Instructions for Pond Cleaning:

Step 1: Drain pond (remove fish & plants).

Step 2: Apply Peroxy Tech Granular to all surfaces.

Step 3: Rinse with water after 10-20 minutes.

Step 4: Drain pond.

Step 5: Re-fill pond (replace fish & plants after de-chlorinating as appropriate).

GENERAL WATER TREATMENT NOTES

- Treat only a half or a third of any large body of water at a time.
- Control is most easily achieved when algae are not yet well established. Treat when growth first begins to appear.
- Dense, thick mats of algae throughout the water volume are indicative of heavy algae growth.
- Apply early in the morning under calm, sunny conditions, and when water temperatures are warm. Sunlight and higher temperatures both enhance Peroxy Tech Granular activity; Peroxy Tech Granular will work more slowly in colder water.
- Skim any dead algae and organic matter that rises to the water's surface after treatment. Allowing dead organics to sink and decay will provide a food source and additional nutrients that stimulate algae re-growth and further blooms.
- If using in conjunction with other water additives (such as bacteria or enzymes), always apply Peroxy Tech Granular first and wait several hours before adding any other products.
- Re-treat areas if re-growth begins to appear. Allow 48 hours between consecutive treatments.
- Maintain ponds with Peroxy Tech Granular maintenance rates at a frequency appropriate for your environmental conditions.
- After application, do not allow undiluted granules to remain in an area where humans or animals are exposed. Sweep up or remove undiluted granules. Undiluted granules may also be eliminated by thoroughly hosing down with water.
- Non-target plants will suffer contact burn if undiluted granules are accidentally spilled on them. Do not apply in such a way that the concentrated product comes in contact with flowering plants.
- ***Never apply at higher than the application rates indicated under the Directions for Use, as desirable plants could be potentially harmed.***
- Do not tank mix with aquatic herbicides or algaecides containing copper or bromides. Always apply Peroxy Tech Granular at least one day prior to the application of these products.

EFFECTIVENESS FACTORS

- Effects of Peroxy Tech Granular treatment are immediately apparent (bubbling, bleaching/discoloration of algae, floating dead organic matter).
- Peroxy Tech Granular treatments are successful when contact of the pesticide is made with the algae.
- Liquid applications will not sink through the water column as readily as a granular application.

- When treating surface mats and blooms, it is possible that Peroxy Tech Granular will not penetrate the water column below the infested area, and a second application is then required for treating any bottom growing algae.
- Apply more often during the summer months when water consumption and temperatures are high.

APPLICATION METHODS

SPREADING / BROADCASTING:

Broadcast Peroxy Tech Granular with a mechanical spreader or by gloved hand, directly on the water surface, from shore or from a properly equipped boat. A hand spreader or any other applicator that will insure uniform coverage is acceptable.

SPOT TREATMENT:

Apply Peroxy Tech Granular directly over the infested area. Re-treatment is required when heavy growth occurs.

SURFACE TREATMENT

Use Peroxy Tech Granular on all listed non-painted surfaces, to prevent and control algae, moss, and slime molds, and the odors and conditions that these organisms cause.

APPLICATION RATES

Non-Painted Surface Rates:

HEAVY GROWTH

4-6 Cups per 1000
Square Feet

LOW GROWTH/PREVENTATIVE

2-4 Cups per 1000
Square Feet

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

APPLICATION RATES

Ground/Surface Rates:

Square Feet	Amount Peroxy Tech Granular	Amount Peroxy Tech Granular
	2-3 lbs. per 1000 sq. ft.	1-2 lbs. per 1000 sq. ft.
2.5	1/2-3/4 tsp.	1/4-1/2 tsp.
5	1-1 1/2 tsp.	1/2 - 1 tsp.
10	2-3 tsp.	1-2 tsp.
50	3-5 tbsp.	5-10 tsp.
125	1/2-3/4 cup	1/4-1/2 cup

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250	1-1 1/2 cup	1/2 - 1 cup
500	2-3 cups	1-2 cups
1000	4-6 cups	2-4 cups

Note: 1 Lb of Peroxy Tech Granular by weight = 2 Cups in volume

HEAVY GROWTH	LOW ALGAE GROWTH/MAINTENANCE
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<p>GRANULAR 2-3 pounds of Peroxy Tech Granular per <u>1000 square feet</u> of area. (1 lb. = 2 cups)</p>	<p>1-2 pounds of Peroxy Tech Granular per <u>1000 square feet</u> of area. (1 lb. = 2 cups)</p>
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Make granular applications over a wet surface or activate with water immediately following application.

LIQUID: Solution Preparation: Due to solubility limitations, it is necessary to use at least 1 gallon of water to fully dissolve each 0.5 pounds of Peroxy Tech Granular. Dissolution of Peroxy Tech Granular in cold water takes approximately 5 minutes.

Treatment Rates: Use the same rates as the granular application given above. (For example: to treat a heavy algae infestation on a 1000 square foot area, dissolve 2 pounds of Peroxy Tech Granular in 4 gallons of water - up to 3 pounds of Peroxy Tech Granular in 6 gallons of water).

Animal Bedding and Litter Rates for Kennels, Livestock Barns, Cages, Stalls and Holding Pens:

LIQUID: Solution Preparation: Due to solubility limitations, it is necessary to use at least 1 gallon of water to fully dissolve each 0.5 lbs. of Peroxy Tech Granular. Dissolution of Peroxy Tech Granular in cold water takes approximately 5 minutes.

Treatment Rates: Mix 1/2 lb. of Peroxy Tech Granular in one gallon of clean water. Spray mixed solution over bedding and/or litter to be treated. Repeat as necessary or every other day to control odors.

GRANULAR: Apply 1 to 2 lbs. of Peroxy Tech Granular over 1000 sq. ft. of area to be treated, then cover with an adequate layer of animal litter or bedding, ensuring even application. Reapply at every bedding and litter change to control odors.
(1 lb. = 2 cups)

Hardscapes: Brick, Stone, and Landscape Pavers

GRANULAR: Apply 1 to 2 lbs. of Peroxy Tech Granular over 1000 sq. ft. of area. Broom sweep into cracks between bricks or pavers to prevent the emergence of weeds. Repeat as necessary. Activate Peroxy Tech Granular by thoroughly hosing down treated area with water, ensuring all granules are dissolved.
(1 lb. = 2 cups)

Dumpster and Trash Can Treatment:

GRANULAR: Use Peroxy Tech Granular to suppress/control odor-causing bacteria in dumpsters and trash cans. Sprinkle 1/2 - 1 lb. of Peroxy Tech Granular per 125 sq. ft. of surface area into the bottom of empty dumpster. Make granular applications over a damp surface or moisten with water immediately following application.
(1 lb. = 2 cups)

LIQUID: Solution Preparation: Mix 1 cup of Peroxy Tech Granular with one gallon of water. Dissolution of Peroxy Tech Granular in cold water takes approximately 5 minutes.

Treatment Rates:

Mix 1 cup of Peroxy Tech Granular in one gallon of clean water. Spray solution over lawn or landscape area to be treated, ensuring complete coverage of moss surfaces. Results should appear in 24-48 hours- moss will turn brown, indicating it is dead. Heavy moss growths may require more than one treatment. Rake dead moss and reseed treated area.

GRANULAR: Apply 1 to 2 lbs. of Peroxy Tech Granular over 1000 sq. ft. of turf grass or landscape area to be treated. Ensure Peroxy Tech Granular is applied evenly over entire area to be treated. Peroxy Tech Granular is activated by moisture. If the ground or turf grass is dry, spray a light spray / mist of water over treated area to ensure activation. Results should appear in 24-48 hours- moss will turn brown, indicating it is dead. Heavy moss growths may require more than one treatment. Rake dead moss and reseed treated area. (1 lb. = 2 cups)

GENERAL SURFACE TREATMENT NOTES

- Granular applications are the most effective.
- Control is most easily achieved when growth is not yet well established. Treat when growth first begins to appear.
- Apply in a manner that will insure even distribution of Peroxy Tech Granular within the treatment area.
- Dense, thick mats of algae throughout the water volume are indicative of heavy algae growth.
- Peroxy Tech Granular is water activated. Watering before application is preferred over misting after application because it prevents over watering leading to a reduced effectiveness.
- When applying Peroxy Tech Granular to soil, gravel or other similar media, incorporate the application of Peroxy Tech Granular into the first inch of substrate for optimum effectiveness.
- To maintain clean surfaces, apply Peroxy Tech Granular at maintenance rates every 5-7 days or as needed to control new or established conditions.
- After application, do not allow undiluted granules to remain in an area where humans or animals are exposed. Sweep up or remove undiluted granules. Undiluted granules may also be eliminated by thoroughly hosing down with water.
- Non-target plants will suffer contact burn if undiluted granules are accidentally spilled on them. Do not apply in such a way that the concentrated product comes in contact with flowering plants.
- Do not tank mix with aquatic herbicides or algaecides containing copper or bromides. Always apply Peroxy Tech Granular at least one day prior to the application of these products.

APPLICATION METHODS

SPREADING / BROADCASTING:

Broadcast Peroxy Tech Granular with a mechanical spreader or by gloved hand. A lawn spreader or any other applicator that will insure uniform coverage is acceptable.

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SPOT TREATMENT:

Apply Peroxy Tech Granula. directly over the infested area. Re-treatment is required when heavy growth occurs.

LIQUID:

Make a solution with Peroxy Tech Granular (refer to liquid application rates). Spray this solution on the desired treatment surface. Use liquid application method for surface treatments only. Do not use liquid application method for water treatments.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

PESTICIDE DISPOSAL AND CONTAINER HANDLING

If empty - Nonrefillable container. Do not reuse or refill this container. Place in trash or 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.

Optional Label Claims:

- Algaecide.
- For indoor or outdoor uses.
- For use in water features containing live fish and plants.
- Eliminates algae and keeps water clear.
- Get algae-free water with Peroxy Tech Granular.
- Peroxy Tech Granular works great on ornamental streams and waterfalls.
- Removes stubborn algae from roofs, walkways, decks, and fountains.
- Great for pond-less waterfalls.
- Easy to use.
- Effective over a wide range of pH conditions.
- Reduces organic build-up and noxious odors including hydrogen sulfide.
- Controls algae blooms.
- Controls odors.
- Roof and siding cleaner.
- Kills mold and algae.
- Easy to use.
- Kills algae, moss, and mold fast.
- Removes black stains on roofs quickly.
- Use near plants and shrubs.
- 8 lbs. will treat algae and mold stains on the roof and siding of a 2-story house.
- 8 lbs. makes 32 gallons of solution.
- 8 lbs. Peroxy Tech Granular covers 16,000 sq. ft. of surface area.
- Removes mold stains.
- Does not off-gas.
- Roofing and siding treatment.

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- Works on patios, walkways and other hard surfaces.
- Kills stubborn algae on outdoor hard surfaces.
- Treat and prevent algae in ponds, fountains and on patios, walkways, and other hard surfaces.
- Remove algae from your walkways.
- Easy application for small areas such as fountains
- Not harmful to fish when used according to label directions.
- Scoop provided for quick measuring.
- Made in the USA.
- Roof and Siding Treatment
- Moss and Algae Treatment
- Marine Algae Cleaner
- Deck and Siding Treatment Algae Treatment
- Mildew Treatment & Deodorizer
- Bilge Cleaner and Treatment
- Hardscape Treatment
- Fountain Treatment
- Bedding Treatment
- Litter Treatment
- Garbage Can Treatment
- Dumpster Treatment
- Removes odors
- Deodorizes
- Moss Treatment
- Moss Treatment for Lawns and Landscapes
- Quickly Removes Moss
- Kills Moss
- Kills Moss on Siding, Roofs, Walks, Decks and Patios
- For Lawns and Turf
- Uses no heavy metals
- Copper Free
- Chlorine Free

Manufactured by: Aquagenics Technologies, Inc. dba Northern Biotechnologies LLC
St. Charles IL, 60174