GreenClean® PRO

Control Algae Blooms

Broad Spectrum Algaecide/Fungicide Treats, Controls, and Prevents Algae Growth
NEW 12-21-2011

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Active ingredient:
Sodium carbonate perhydroxide* .......................... 85%  
Other ingredients ........................................ 15%  
Total .................................................. 100%  
*Contains 27.6% hydrogen dioxide by weight.

EPA registration number: 7209P-15  
Establishment number: 72974-41-001  
Manufactured by: Biosafe Systems, LLC.  
22 Meadow St.  
East Hartford, CT 06108 (toll-free): 1-888-273-3088.

**KEEP OUT OF REACH OF CHILDREN**

**DANGER - PELIGRO**

Si usted no entiende esta etiqueta, busque a alguien para que se le explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID:

If in eyes .................................................... Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.

If in skin or clothing ..................................... Take off contaminated clothing.

For swallowed ........................................... Rinse skin immediately with plenty of water for 15 - 20 minutes.

If swallowed (other than ingestion) .................... Call poison control center or doctor for treatment advice.

If inhaled .................................................... Have person lie down and call 911 or an ambulance, then give artificial respiration, preferably 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.

PRECAUTIONARY STATEMENTS

Hazard to humans and domestic animals - DANGEROUS: Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Personal protective equipment (PPE): Handlers who may be exposed to the dilute through application or other tasks must wear: long-sleeved shirt and long pants, and shoes plus socks. Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear: coversalls over long-sleeved shirt and long pants, rubber gloves, chemical resistant footwear plus socks, and protective eyewear (goggles or face shield). Follow manufacturer’s instructions for cleaning and maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not re-use them. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY REQUIREMENTS: 
Users should:
- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet.
- Wear protective clothing 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. 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 beneficials are part of an integrated pest management strategy. Do not contaminate water when disposing of equipment washwaters or rinsates.

PHYSICAL AND CHEMICAL HAZARDS: 
Strong oxidizing agent. Corrosive. Do not bring in contact with other pesticides, cleaners or oxidizing agents.

DIRECTIONS FOR USE:

Avoid use near shallow waterbody margins during amphibian breeding seasons.

Agricultural use requirements: 
This product is 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), notification to workers, and Restricted-Entry Interval (REI). The requirements in this box only apply to the 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 foggling or spraying to growing plants, surfaces, equipment, structures and non-permance surfaces in enclosed environments such as greenhouses and greenhouses. The 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 coversalls worn over long-sleeved shirt and pants, waterproof gloves and shoes plus socks.

There is a restricted entry of zero (0) hours for pre-plant dip, seed treatment, soil drench, mop, sponge, dip, soak, rinse or other non-spacing or non-fogging application methods when used in enclosed environments such as greenhouses and greenhouses.

For field applications: 
Keep unprotected persons out of treated areas until sprays have dried.

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.

NET CONTENTS: 50 lbs.
**WATER TREATMENT**

Use GreenClean®PRO to treat, control, and prevent a broad spectrum of (filamentous and planktonic blue-green) algae, bacteria, and fungus. Effects of treatment are immediately apparent (bubbling, bleaching, dissolution of algae or fungus, floating of dead organic matter). Waters treated with GreenClean®PRO are permissible to be used without interruption.

**APPLICATION RATES**

**Measuring GreenClean®PRO**

One pound of granules is equivalent to one pound of tablets.

1.0 Lb. of GreenClean®PRO = 11 Scoops  
1.0 Tbs. of GreenClean®PRO = 1/3 Scoop  
1.0 Tsp. of GreenClean®PRO = 1/10 Scoop

**FOR STOCK TANKS AND LIVESTOCK WATER:**

Use GreenClean®PRO to suppress/control algae, bacteria and fungi in stock tanks, stock watering ponds, tanks and troughs, and livestock water. Apply 2 to 10 tablespoons per thousand gallons of water. Product can be simply added to the body of water, for even distribution throughout the water column. Apply GreenClean®PRO as needed to control and prevent algae growth; make applications more frequently in times of higher water temperatures.

**FOR AGRICULTURAL SPRAY IRRIGATION WATER, IRRIGATION PONDS, DRAINAGE WATER AND DITCHES:**

Use GreenClean®PRO to suppress/control algae, bacteria and fungi in agricultural irrigation waters, irrigation ponds and drainage water and ditches. Apply 2 to 10 tablespoons per thousand gallons of water. Product can be simply added to the body of water, for even distribution throughout the water column.

**FOR SEWAGE WATER TREATMENT:**

Use GreenClean®PRO for the control of bacteria and malodors caused by hydrogen sulfide gas. Apply 50-250 lbs. of GreenClean®PRO per million gallons of water. For lagoons, wait 24 hours before adding beneficial bacteria.

**FOR ALGAE CONTROL IN RICE/WILD RICE FIELDS AND PADDIES:**

After the field has been flooded to a depth of 4-6 inches, apply 10-25 lbs. of GreenClean®PRO per acre as a broadcast or aerial spread by plane or other professional device at the first signs of algae. Applications are most effective when made before algae rises to the water surface. Reapply as needed in accordance with General Treatment Notes.

**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:** 
  \[ \text{L(ft) x W(ft) x D(ft)} = \text{Gallons} \]
  \[ \text{L(m) x W(m) x D(m)} = \text{Liters} \]
- **Circular/Elliptical:** 
  \[ \text{L(ft) x W(ft) x D(ft)} \times 5.9 = \text{Gallons} \]
  \[ \text{L(m) x W(m) x D(m)} \times 786 = \text{Liters} \]

\[ 1 \text{ acre-foot of water = } \]
\[ \text{water measuring } 208.7 \text{ ft long x } 208.7 \text{ ft wide x } 1 \text{ ft deep} = 43,560 \text{ cubic feet} \]
\[ 325,851 \text{ gallons} = 2,780,000 \text{ pounds} \]

\[ \text{Avg. Length (ft) x Avg. Width (ft) x Avg. Depth (ft)} = \text{acre-feet of water} \]
\[ 43,560 \]

\[ \text{acre-feet of water} = \text{acres} \]

**APPLICATION RATES:**

**Measuring GreenClean®PRO**

One pound of granules is equivalent to one pound of tablets.

**FULL WATER VOLUME RATES:**

<table>
<thead>
<tr>
<th>GRANULAR/TABLETS: Lg. Volume</th>
<th>HEAVY ALGAE GROWTH</th>
<th>LOW ALGAE GROWTH: MAINTENANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-300 pounds of GreenClean®PRO per million gallons of water</td>
<td>5-30 pounds of GreenClean®PRO per million gallons of water</td>
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</tr>
<tr>
<td>OR 20-100 pounds of GreenClean®PRO per acre-foot of water.</td>
<td>OR 2-10 pounds of GreenClean®PRO per acre-foot of water.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>GRANULAR/TABLETS: Sm. Volume</th>
<th>2-10 Tablespoons of GreenClean®PRO per 1,000 gallons of water.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(16 Tbs. = 1 Cup) (2 Cups = 1 lbs)</td>
<td>1-3 Teaspoons of GreenClean®PRO per 1,000 gallons of water.</td>
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<tr>
<td>(3 tsp. = 1 Tbs.)</td>
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</table>

**SURFACE WATER VOLUME ONLY RATES:**

Apply GreenClean®PRO to the top surface of the water for treatment of suspended and free-floating algae mats and blooms.

<table>
<thead>
<tr>
<th>GRANULAR/TABLETS:</th>
<th>HEAVY ALGAE GROWTH</th>
<th>LOW ALGAE GROWTH: MAINTENANCE</th>
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</thead>
<tbody>
<tr>
<td>20-100 pounds of GreenClean®PRO per acre-foot of water.</td>
<td>2-10 pounds of GreenClean®PRO per acre-foot of water.</td>
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</tbody>
</table>

**LIQUID:**

- Solution Preparation:
  - Due to solubility limitations, use at least 1 gallon of water to fully dissolve each 0.5 pounds of GreenClean®PRO.
  - Dissolution of GreenClean®PRO in cold water takes approximately 5 minutes.

**Treatment Rates:** Use the same rates as the granular/tablets application given above.
GENERAL TREATMENT NOTES

- 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 day under calm, sunny conditions, and when water temperatures are warm. Sunlight and higher temperatures both enhance GreenCleanPRO activity.
- Apply in a manner that will insure even distribution of GreenCleanPRO within the treatment area.
- 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.
- If using in conjunction with other water additives (such as bacteria or enzymes), always apply GreenCleanPRO 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.
- In regions where water freezes in the winter, treatment with GreenCleanPRO (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/tablets to remain in an area where humans or animals are exposed.
- Non-target plants will suffer contact burn if undiluted granules/tablets are accidentally spilled on them. Do not apply in such a way that the concentrated product comes in contact with grass, ornamentals and other foliage.
- Do not tank mix with aquatic herbicides or algacides containing copper or bromides. Always apply GreenCleanPRO at least one day prior to the application of these products.
- 100 pounds of GreenCleanPRO per million gallons of water = 4ppm of sodium.
- Wait 24 hours before treating lagoons with beneficial bacteria.

EFFECTIVENESS FACTORS

- Effects of GreenCleanPRO treatment are immediately apparent (bubbling, bleaching/dischoration of algae, floating dead organic matter).
- GreenCleanPRO 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/tablet application.
- When treating surface mats and blooms, it is possible that GreenCleanPRO 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

In bodies of water where an aerator is available, and when treating an entire water volume, apply GreenCleanPRO at the edges of the aerator turbulence, or within the turbulence created by running the aerator to facilitate rapid and adequate mixing.

SPREADING/BROADCASTING: Broadcast GreenCleanPRO with a mechanical spreader or by hand, directly on the water surface, from shore or from a properly equipped boat.

SPOT TREATMENT: Apply GreenCleanPRO directly over algae covered area. Retreat when heavy growth occurs.

LIQUID: Make a solution with GreenCleanPRO (refer to liquid application rates). Spray this solution on the water surface from shore or a properly equipped boat. If using a slurry, agitate constantly.

INJECTION: Make a solution with GreenCleanPRO (refer to liquid application rates). Inject this solution into the water via a piping system.

SUBSURFACE: Place GreenCleanPRO in burlap bags and drag through the water by means of a boat. Use granular/tablet application rates. Begin treatment along the shoreline, and proceed outward. The path of the boat shall insure an even distribution. Continue dragging until all GreenCleanPRO is dissolved.

AERIAL: Apply directly to water surface using conventional aerial application equipment. Avoiding spray drift at the application site is the responsibility of the applicator. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.
SURFACE TREATMENT

Use GreenCleanPRO on all listed non-painted surfaces, to prevent and control algae, bacteria, plant pathogens, moss, fungus, liverwort, molds, slime molds and their spores, and the odors and conditions that these organisms cause.

Use on surfaces, equipment, and structures such as: greenhouse/nursery walkways, ground cloth, weed mats, floors, walls, on and under greenhouse benches, fan blades, watering systems, vats, tanks, coolers, storage rooms, bins, elevators, storage areas, the surface line, for equipment conveyors, irrigation systems, process equipment, process water systems, trucks, structures and related equipment. Use in areas that promote slippery conditions and slip hazards caused by algae and slime molds.

FOR SURFACES, EQUIPMENT AND STRUCTURES: Use GreenCleanPRO at a rate of 0.5 lb. to 2 lbs. per 1,000 square feet of area to be treated. Apply as a granular/tablets, liquid or foam, following Application Instructions below.

POTS, PLATS, TRAYS AND CUTTING TOOLS: Use GreenCleanPRO to suppress/control the spread of plant pathogens, bacteria, fungi and slime forming algae. Use 1/4 lb. of GreenCleanPRO per gallon of clear water. Spray equipment thoroughly or soak tools to ensure complete coverage.

BENCHES AND WORK AREAS: Sweep and remove all plant debris. Use a power sprayer to wash all surfaces to remove loose dirt. Use 1/4 lb. of GreenCleanPRO per gallon of clear water. Apply as a spray or foam ensuring complete coverage. Scrub to remove heavy growths of algae and fungi.

DUMPSTER AND TRASH CAN TREATMENT: Use GC Pro to suppress/control odor-causing bacteria in dumpsters and trash cans. Sprinkle 1/8-1/4 lb. of GC Pro per 125 sq. ft. of surface area into the bottom of empty dumpster. Make applications over a damp surface or moisten with water immediately following application.

APPLICATION RATES:

Measuring GreenCleanPRO

One pound of granules is equivalent to one pound of tablets.

GROUND/SURFACE RATES:

<table>
<thead>
<tr>
<th>HEAVY ALGAE GROWTH</th>
<th>LOW ALGAE GROWTH: MAINTENANCE</th>
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<tbody>
<tr>
<td>1-2 pounds of GreenCleanPRO per 1,000 square feet of area.</td>
<td>0.5-1 pounds of GreenCleanPRO per 1,000 square feet of area.</td>
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<tr>
<td>(1 lbs. = 2 cups)</td>
<td>(1 lbs. = 2 cups)</td>
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</tbody>
</table>

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 GreenCleanPRO.
- Dissolution of GreenCleanPRO in cold water takes approximately 5 minutes.

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

LIQUID:

Solution Preparation:

- Follow the liquid solution preparation instructions above.
- Add 2.0 - 5.0 fluid ounces of an alkaline-based foam, such as BioSafe Systems "Alk-A-Foam", per gallon of finished solution.

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

ANIMAL BEDDING & LITTER RATES FOR LIVESTOCK BARNs, 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 pounds of GreenCleanPRO.
- Dissolution of GreenCleanPRO in cold water takes approximately 5 minutes.

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

APPLICATION VIA FOOT MATS, FOOT PADS, WALK THROUGH TRAYS:

LIQUID:

Apply GreenCleanPRO via foot mats, foot pads and walk through trays to prevent the tracking and spread of dirt and microorganisms in greenhouses, nurseries, barns, aquaculture production facilities, fisheries, hatcheries, aquariums, zoos, kennels, and livestock barns.

Solution Preparation:

Make a solution using 1/4 - 1/2 lb. of GreenCleanPRO per gallon of water. Fill foot mat, food pad or walk through tray to capacity. Use the stronger rate for applications with heavy soil loading. Change solution as needed.

GENERAL TREATMENT NOTES

- 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 GreenCleanPRO within the treatment area.
- GreenCleanPRO is water activated. Watering before application is preferred over misting after application because it prevents over watering leading to a reduced effectiveness.
- When treating soil, gravel or other similar media, apply and incorporate GreenCleanPRO to an inch below the surface line, for optimum effectiveness.
- Apply GreenCleanPRO at maintenance rates every 5-7 days or as needed to control new or established conditions.
- After application, do not allow undiluted granules/tablets to remain in an area where humans or animals are exposed.
- Non-target plants will suffer contact burn if undiluted granules/tablets are accidentally spilled on them. Do not apply in such a way that the concentrated product comes in contact with grass, ornamentals and other foliage.
- Do not tank mix with aquatic herbicides or algaeicides containing copper or bromides. Always apply GreenCleanPRO at least one day prior to the application of these products.

APPLICATION METHODS

SPREADING/BROADCASTING: Broadcast GreenCleanPRO with a mechanical spreader or by hand. A lawn spreader or any other applicator that will insure uniform coverage is acceptable.

SPOT TREATMENT: Apply GreenCleanPRO directly over algae covered area. Re-treat when heavy growth occurs.

LIQUID: Make a solution with GreenCleanPRO (refer to liquid application rates). Spray this solution on the desired treatment surface.

FOAM: Make a solution with GreenCleanPRO (refer to foam application rates). Spray this solution on the desired treatment surface. Use a foamer, such as the BioSafe BioFoamer, 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-ventilated 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: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of 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 DISPOSAL: Non-refillable container. Do not re-use or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY
NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of BIOSAFE SYSTEMS LLC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold BIOSAFE SYSTEMS and Seller harmless for any claims relating to such factors.

BIOSAFE SYSTEMS warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, in no event shall BIOSAFE SYSTEMS or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BIOSAFE SYSTEMS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF BIOSAFE SYSTEMS OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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