

1. IDENTIFICATION:

Product Name: GreenCleanPRO California Granular Algaecide

Product Type: Algaecide

Manufacturer: BioSafe Systems LLC
22 Meadow Street
East Hartford, CT 06108

US Patent Number: 5723406

Office Telephone Number: (888) 273-3088

Emergency: CHEMTREC: 800-424-9300
(24 HOURS EVERY DAY)

Creation Date: 3/2008

NOTE: NOT VALID TWO YEARS AFTER CREATION DATE.

2. COMPONENTS:

Sodium Carbonate

Peroxyhydrate: CAS 15630-89-4

3. HEALTH HAZARDS DATA:

Inhalation: Slight nose and throat irritation

Eye contact: Severe eye irritation, risk of serious eye lesions

Skin contact: Slight irritation

Ingestion: Severe irritation of the mouth, throat, esophagus and stomach

4. 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 mouth-to-mouth if possible. Call poison control center or doctor for treatment advice.

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.

5. FIRE AND EXPLOSION DATA:

Special fire hazards: Oxidizing substance that causes exothermic reactions with organic materials.

Fire fighting methods: Product is not flammable and can be quickly diluted with clean water.

Specific Hazards: Reacts with strong reducing agents – decomposition may support combustion.

6. SPILL OR LEAK PROCEDURES:

Cleanup: Collect the product with suitable means, shovel, and sweep, avoiding dust formation.

Waste Disposal: Do not return spilled or contaminated material to inventory. Clean the area with large quantities of clean, cold water.

7. HANDLING AND STORAGE:

- Never return unused product to the original container
- Keep concentrate away from reactive substances
- Prevent contact with organic materials
- Keep product in original container
- Store in cool, dry area
- Keep out of direct sunlight and away from heat sources

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Respiratory: For most conditions, no respiratory protection should be needed.

Eyes: Use dust proof chemical goggles

Hands: Protective gloves – chemical resistant

Skin: Body-covering clothing

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: White, granular, solid

Odor: None

Bulk Density: 1.0 – 1.2 g/cm³

Solubility: 140 g/L @ 24° C (75° F)

pH: 1% solution: 10.4 – 10.6

10. STABILITY AND REACTIVITY:

Stability: Stable under normal conditions

Avoid: Heat/Sources of Heat •

Water/Moisture • Acids • Bases •

Reducing Agents • Organic Materials

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity:

- Dermal = LD Lo rabbit > 2000 mg/kg
- Inhalation = LC 0 1 hour, rat > 4580 mg /m
- Oral = LD 50 rat 1034 mg/kg

12. ECOLOGICAL INFORMATION:

Toxic to simple cell organisms
Danger to the environment is limited - due to product properties.

- No bioaccumulation
- Soil degradation = 99% in 20 minutes
- Considerable abiotic and biotic degradability
- Sediments = Non-significant adsorption
- Weak persistence of degradation products
- Degradation products = sodium carbonate, carbon dioxide, bicarbonate carbonate, hydrogen dioxide.

13. DISPOSAL CONSIDERATIONS:

Packing Treatment: Rinse empty containers with clean water. Clean and empty containers are to be recycled or disposed in accordance with local regulations.

14. TRANSPORT INFORMATION:

D.O.T. Shipping Name: Sodium Carbonate Peroxyhydrate

UN Number: UN # 3378

Hazard Class: 5.1

Primary Hazard Label: Oxidizer

Subsidiary Risk Label: None

Packing Group: III

WHMIS Classification: C – oxidizing material

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For additional information on GreenCleanPRO California Granular Algaecide, call us toll-free at 1.888.273.3088.

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SPECIMEN LABEL

For indoor or outdoor uses.

ACTIVE INGREDIENT:

Sodium Carbonate Peroxyhydrate*	85%
OTHER INGREDIENTS.....	15%
TOTAL.....	100%

*Contains 27.6% Hydrogen Dioxide by weight.

KEEP OUT OF REACH OF CHILDREN DANGER – PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la 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.
- 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.

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.

Sold By:

BioSafe Systems, LLC • East Hartford, CT 06108
EPA Registration No. 70299-6 • EPA Establishment No. 68660-TX-001

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMAN AND DOMESTIC ANIMALS – DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through 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): When handling wear protective eyewear (goggles or face shield) and chemical resistant gloves. Applicators and handlers must wear coveralls over long-sleeved shirt, long pants, and chemical resistant footwear plus socks. 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 thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing 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 disposing of equipment washwaters or rinsate. 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.

PHYSICAL AND CHEMICAL HAZARDS: Strong oxidizing agent. Corrosive. 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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.

Avoid use near shallow waterbody margins during amphibian breeding seasons.

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), notification to workers, 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 and 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 GreenCleanPRO Granular Algaecide to any listed water site.

APPLICATION SITES INCLUDE:

Farms, Sod Farms, Rice Paddies and Fields, Aquaculture Production Facilities, Fisheries, Hatcheries, Greenhouses, Nurseries, Golf Courses, Amusement Parks, Water Parks, Aquariums, Zoos, Botanical Gardens, National Parks, Recreational Areas, Non-Chlorinated Swimming Areas, Raceways, Sports Facilities, Business Parks, Indoor/Interiors, Malls, Hotels, Kennels, Livestock Barns, Livestock Stalls and Holding Pens, Cemeteries, Carwashes, Marinas, Boats, Docks, Garden Centers, Power Washing, Water Gardens, Landscapes, Municipalities, Reservoirs, Waterways, Storm Waters, Drainage Systems, Impounded Waters, and Wastewater.

APPLICATION SURFACES INCLUDE:

WATER SURFACES:

Ponds, Lakes, Lagoons, Fish Ponds, Stock Tanks, Golf Course Ponds, Industrial/Commercial Ponds, Impounded Waters, Standing Water, Bilge Water, Reservoir Water, Waterways, Conveyance Ditches, Canals, Laterals, Drainage Systems, Irrigation Systems, Irrigation Ponds, Catch Basins, Flooded Areas, Sewage Systems, Drain Fields, Fire Ponds, Watering Tanks, Storage Tanks, Water Collectors and Domestic/Commercial Waters

WATER TREATMENT:

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

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

$$\frac{\text{Avg. Length (ft)} \times \text{Avg. Width (ft)} \times \text{Avg. Depth (ft)}}{43,560} = \text{acre-feet of water}$$

$$\frac{\text{Avg. Length (ft)} \times \text{Avg. Width (ft)}}{43,560} = \text{acres}$$

APPLICATION RATES:

Full Water Volume Rates:

	HEAVY ALGAE GROWTH	LOW ALGAE GROWTH - MAINTENANCE
GRANULAR: Lg. Volume	50-250 pounds of GreenClean PRO Granular Algaecide per million gallons of water - OR - 20-90 pounds of GreenClean PRO Granular Algaecide per acre-foot of water.	5-25 pounds of GreenClean PRO Granular Algaecide per million gallons of water. - OR - 2-9 pounds of GreenClean PRO Granular Algaecide per acre-foot of water.
	For example: Lakes, ponds, lagoons	
GRANULAR: Sm. Volume	2-10 tablespoons of GreenClean PRO Granular Algaecide per 1000 gallons of water. (16 Tbs. = 1 Cup) (2 Cups = 1 lb.)	1-3 teaspoons of GreenClean PRO Granular Algaecide per 1000 gallons of water. (3 tsp. = 1 Tbs.)
	For example: Indoor or outdoor water gardens, fountains, ornamental waterfalls	

Surface Water Volume Only Rates:

Use a "surface only" treatment for suspended algae and free-floating algae mats.

	HEAVY ALGAE GROWTH	LOW ALGAE GROWTH - MAINTENANCE
GRANULAR:	20-90 pounds of GreenClean PRO Granular Algaecide per acre-foot of water.	2-9 pounds of GreenClean PRO Granular Algaecide per acre-foot of water.
LIQUID:	Solution Preparation: Due to solubility limitations, use at least 1 gallon of water to fully dissolve each 0.5 pounds of GreenClean PRO Granular Algaecide. Dissolution of GreenClean PRO Granular Algaecide in cold water takes approximately 5 minutes. Treatment Rates: Use the same rates as the granular application given above.	

APPLICATION TO CONTROL ALGAE IN RICE/WILD RICE FIELDS AND PADDIES:

GRANULAR:	After the field has been flooded to a depth of 4-6 inches, apply 10-25 lbs. of granular GreenCleanPRO 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.
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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 GreenClean PRO Granular Algaecide activity.
- Apply in a manner that will insure even distribution of GreenClean PRO Granular Algaecide 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.
- Use GreenClean PRO Granular Algaecide as an integral part of your water management system. If using in conjunction with other water additives (such as bacteria or enzymes), always apply GreenClean PRO Granular Algaecide 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 an algae free pond with GreenClean PRO Granular Algaecide maintenance rates at a frequency appropriate for your environmental conditions.
- In regions where water freezes in the winter, treatment with GreenClean PRO Granular Algaecide (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.
- 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 grass, ornamentals and other foliage.
- Do not tank mix with aquatic herbicides or algaecides containing copper or bromides. Always apply GreenClean PRO Granular Algaecide at least one day prior to the application of these products.
- 100 pounds of GreenClean PRO Granular Algaecide per million gallons of water = 4ppm of sodium.

EFFECTIVENESS FACTORS:

- Effects of GreenClean PRO Granular Algaecide treatment are immediately apparent (bubbling, bleaching/dicoloration of algae, floating dead organic matter).
- GreenClean PRO Granular Algaecide 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 GreenClean PRO Granular Algaecide 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 frequently 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 the entire water volume, dose GreenClean PRO Granular Algaecide at the edges, or in the turbulence created while the aerator runs to facilitate rapid and adequate mixing.

SPREADING / BROADCASTING:

Broadcast GreenClean PRO Granular Algaecide with a mechanical spreader or by hand, directly on the water surface, from shore or from a properly equipped boat.

SPOT TREATMENT:

Apply GreenClean PRO Granular Algaecide directly over the infested area. Re-treatment is required when heavy growth occurs.

LIQUID:

Make a solution with GreenClean PRO Granular Algaecide (refer to liquid application rates). Spray this solution on the water surface from shore or a properly equipped boat. When using this method, the wind direction is important as well as the operation of the boat. If using a slurry, agitate constantly.

INJECTION:

Make a solution with GreenClean PRO Granular Algaecide (refer to liquid application rates). Inject this solution into the water via a piping system.

SUBSURFACE:

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

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: 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: 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.

WARRANTY:

This material conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing, unfavorable temperatures, water conditions, presence of other materials, method of application, weather, watering practices, nature of soil, disease problem, condition of crop, incompatibility with other chemicals, pre-existing conditions and other conditions influencing the use of this product are beyond the control of the seller. Buyer assumes all risks associated with the use, storage, or handling of this material not in strict accordance with directions given herewith. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE.