

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION:

Product Name: GreenClean Granular Algaecide (CALIFORNIA)
Product Type: Algaecide
Manufacturer: BioSafe Systems L.L.C.
 22 Meadow Street
 East Hartford, CT 06108
Office Telephone Number: (888) 273-3088
Emergency: CHEMTREC: 800-424-9300
 (24 HOURS EVERY DAY)

Creation Date: 1/07
NOTE: NOT VALID TWO YEARS AFTER CREATION DATE.

2. COMPONENTS:

Sodium Carbonate
 Peroxhydrate: CAS 15630-89-4
 Sodium Carbonate: CAS 497-19-8

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 oxidizing substances – 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 on accordance with local regulations.

14. TRANSPORT INFORMATION:

D.O.T. Shipping Name: Not regulated
UN Number: None
Hazard Class: None
Primary Hazard Label: None
Subsidiary Risk Label: None
Packing Group: None
WHMIS Classification: C – oxidizing material

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BioSafe Systems LLC

22 Meadow Street East Hartford, CT 06108
 1.888.273.3088 www.biosafesystems.com

SPECIMEN LABEL

For use in water features containing live fish and plants. For indoor or outdoor residential uses.

ACTIVE INGREDIENT:

Sodium Carbonate Peroxyhydrate*42.50%
OTHER INGREDIENTS57.50%
TOTAL100%
 * Contains 13.80% 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.)

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Sold by: BioSafe Systems, LLC
 22 Meadow Street East Hartford, CT 06108
 EPA Registration No. 70299-4 EPA Establishment No. 72859-TX-001

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMAN AND DOMESTIC ANIMALS – DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash 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 disposing of equipment washwaters or rinsate.

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.

FOR TREATMENT OF THE FOLLOWING WATER SURFACES:

Ponds, Lakes, Lagoons, Water Gardens, Fish Ponds, Ornamental Pools/Ponds, Ornamental Waterfalls, Fountains, Bird Baths, Standing Water, Waterways, Irrigation Ponds, Flooded Areas, Sewage Systems, and Domestic Waters

GreenClean Granular is *not* intended for use in drinking water.

Use GreenClean 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 GreenClean Granular 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(ft) x W(ft) x D(ft) x 7.5 = Gallons
	L(m) x W(m) x D(m) x 1000 = Liters
Circular/Elliptical:	L(ft) x W(ft) x D(ft) x 5.9 = Gallons
	L(m) x W(m) x D(m) x 786 = 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

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

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

