



Lake Guard® Blue

Algicide

net content

50lbs

EPA Reg. No. 93647-1
EPA Est. No. 95856-OH-1

ACTIVE INGREDIENT

Copper sulfate pentahydrate †*..... 95.0%

OTHER INGREDIENTS..... 5.0%

TOTAL..... 100.0%

†CAS No. 7758-99-8

*Copper as metallic, 23.9%

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 the label, find someone to explain it to you in detail.)



Certified to
NSF/ANSI/CAN 60

Ohio, USA
MUL 4 mg/L

PERSONAL PROTECTIVE EQUIPMENT

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Goggles or face shield

Some materials that are chemical-resistant to this product are polyvinyl chloride, nitrile rubber, or butyl rubber. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart. Discard clothing and other absorbent materials that have been drenched or heavily contaminated by

this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.
- Call a poison control center or doctor for treatment advice.

If swallowed

- Call a 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 by a poison control center or doctor.
- Do not give anything to an unconscious person.

If on skin

- 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 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 a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 (NPIC Web site: www.npic.orst.edu). For emergencies, call the poison control center 1-800-222-1222.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER/PELIGRO

Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wear protective eyewear, such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least the retreatment interval indicated below. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required. Certain water conditions including low pH (≤ 6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L) increases the potential acute toxicity to non-target aquatic organisms.



Manufactured for:
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BATCH CODE:

Phylum	Recommended treatment rates
Cyanobacteria	0.5 to 17.8** lbs./acre
Green Algae	0.5 to 17.8** lbs./acre
Diatoms	0.5 to 13.4** lbs./acre
Protozoa (Flagellates)	0.5 to 17.8** lbs./acre

* Use the lower recommended rate in soft waters (less than 50 ppm methyl orange alkalinity) and the higher rate in hard waters (above 50 ppm alkalinity). Alternatively, the treatment dosage can be based on the intensity of the bloom: At "Low" bloom level, 20,000-100,000 algae/cyanobacteria cells/ml or 10-50 µg chlorophyll-a/liter, Recommended Treatment Rate 1-4 lbs/acre with a retreatment interval of 24 hours. At "Moderate" bloom level, 100,000-1,000,000 algae/cyanobacteria cells/ml or 50-500 µg chlorophyll-a/liter, Recommended Treatment Rate 4-8 lbs/acre with a retreatment interval of 24 hours. At "Severe" bloom level, 1,000,000-10,000,000 algae/cyanobacteria cells/ml or 500-5,000 µg chlorophyll-a/liter, Recommended Treatment Rate 8-15 lbs/acre with a retreatment interval of 24 hours. At "High" bloom level, more than 10,000,000 algae/cyanobacteria cells/ml or over 5,000 µg chlorophyll-a/liter, Recommended Treatment Rate 15-35 lbs/acre with a retreatment interval of 14-days. ** In late-treated heavy infestations, the maximum Lake Guard® Blue application may reach as high as 35 lbs./acre as long as final copper ions concentration do not exceed 1.0 ppm.

User safety recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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.

DIRECTIONS FOR USE

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 or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

GENERAL INFORMATION

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply to shallow water bodies less than three feet deep, or to areas where surface water is stagnant.

Water hardness, the temperature of the water, the type and amount of algae/cyanobacteria to be controlled, and the amount of water flow are to be considered in using Lake Guard Blue™ to control algae/cyanobacteria. Algal growth is difficult to control with Lake Guard Blue™ when water temperatures are low (less than 15.5°C) or when the water alkalinity is above 50 ppm. It is best to apply Lake Guard Blue™ on a sunny day in the morning hours.

APPLICATION RATES

Water bodies, such as impounded waters, lakes, ponds, drinking water reservoirs, waste water, irrigation, drainage, aquaculture, conveyance ditches, pipes, canals, laterals, estuaries, bayous, lagoons, and brackish and salt water contaminated with algae/cyanobacteria can be treated with Lake Guard® Blue. Monitor water bodies systematically for the presence of harmful algae/cyanobacteria. Evaluation of the bloom condition should be made by a professional. Begin treatment as soon as algal/cyanobacterial cell numbers reach 20,000 cells/mL (and below 10 µg chlorophyll-a/liter). If treatment is delayed until algal/cyanobacterial cell numbers exceed 20,000 cell/mL (or equivalently, above 10 µg chlorophyll-a/liter), an increase in the quantities of Lake Guard® Blue will be required, as well as in treatment frequency. The quick and easy treatment application (minutes for applying hundreds of lb), and the visual results that would be apparent within 24-48 hours, enable the applicator to make a quick adjustment on whether to increase the dose rate by 50-100% during the next treatment application, or scale it back and use even less product under similar conditions. Since all water bodies are unique aquatic ecosystems and, therefore, differ from each other in treatment response and longevity, the Lake Guard® Blue application protocol offers the applicator a scalable dose rate that saves money and reduces the chemical load introduced to the environment. For first time users, or when in doubt, applicators should start with 0.5-2.5 lb/acre and adjust the dose rates (increase or decrease) by increments of 25-50%, and over time can fine-tune the treatment application for each waterbody. NOTE: Use the lower recommended dose-rate in soft waters (less than 50 ppm methyl orange alkalinity) and the higher dose-rate in hard waters (above 50 ppm alkalinity). Always consult State Fish and Game Agency before applying this product to municipal waters. NOTE: The active ingredient in the Lake Guard® Blue is copper sulfate pentahydrate which becomes less effective with the increase of alkalinity. Its effectiveness is significantly reduced when the bicarbonate alkalinity exceeds 150 ppm. Treatment is applied per surface area according to the table below. Determination of the infested area is performed as follows: (1) in small infested water bodies of less than 250 acres, obtain surface area by measuring of regular shaped water bodies or mapping of irregular water bodies or by reference to previously recorded engineering data or maps, (2) in water bodies larger than 250 acres (or smaller water bodies with a defined contaminated zone), calculate the required treatment rate based on the surface outline of the infested area.

APPLICATION METHODS

Apply Lake Guard® Blue using equipment designed for granular dusting. Dusting can be done manually from the bank, a boat, or from an airplane, depending on the total area of the water body and the optimal application strategy. Apply in small/medium water bodies (under 250 acres) from the edge of the water body, in upstream/downwind locations to minimize risk to the operator and allow the wind and currents to carry the particles alongside algae/cyanobacteria aggregates. When using a boat, apply the required rate downwind in the vicinity of algal/cyanobacterial concentrates. For large water bodies, apply treatment upstream/downwind using boats or aerial application at close proximity to algal/cyanobacterial concentrations. Always apply the granules upstream/downwind to allow winds and currents to carry the algicide particles to the desired location around algae/cyanobacteria aggregation. NOTE: If treated water is to be used as a source of potable water, the residual copper ions must not exceed 1 ppm (equals to -4.0 ppm Lake Guard® Blue).

Storage and disposal

Do not contaminate water, food, or feed by storage or disposal. PESTICIDE STORAGE: Keep pesticide in original container. Do not use in food or drink containers. 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 instructions, 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. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of BlueGreen Water Technologies. All such risks shall be assumed by the user or buyer. **DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, BlueGreen Water Technologies makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of BlueGreen Water Technologies is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, BlueGreen Water Technologies disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at BlueGreen Water Technologies' election, the replacement of product.

[UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 9, III. (copper sulfate pentahydrate)]