

PondBrite™

ALGAECIDE CYANOBACTERICIDE

Solution

For use in ponds, non-potable water tanks, water gardens, and decorative fountains

DOMESTIC

ACTIVE INGREDIENT: Copper, present as copper sulfate pentahydrate2.73%

DANGER



CORROSIVE

DANGER – CORROSIVE TO EYES
DANGER SKIN IRRITANT

REGISTRATION NO. 33957 PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

DO NOT APPLY TO WATERS CONTAINING FISH
WITHOUT CONSULTING PondBrite™ DISTRIBUTOR

Net Contents: 0.1 - 20 L

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GENERAL INFORMATION: PondBrite™ is an algaecide cyanobactericide, innovative formulation providing effective control of algae and cyanobacteria (blue-green algae) in non-potable water tanks, ornamental ponds, water gardens, and decorative fountains. PondBrite™ disperses evenly throughout the water column. It does not precipitate or stratify.

DIRECTIONS FOR USE

Dilution of 1:30,000 (33ml PondBrite™ per 1000 litres of water) provides a biologically active 1 part per million (ppm) ionic copper (Cu²⁺). Use a copper test kit to determine existing ionic copper levels before adding additional product.

Product Dilution Table		
PondBrite™ (L)	Volume of Water (L)	Ionic Copper (ppm)
1	100,000	0.3
1	60,000	0.5
1	30,000	1.0

SPECIFIC DIRECTIONS FOR THE FOLLOWING USES:

PONDS (ORNAMENTAL), NON-POTABLE WATER TANKS, WATER GARDENS, AND DECORATIVE FOUNTAINS

Apply 1 litre to 30,000 - 60,000 litres of water for the prevention of algal blooms. Water conditions and the extent of active micro-organisms present determines the effective application rate. For permanent algae control maintain 0.5 to 1.0 ppm copper in the water. (add 3.3 ml per 1000L to increase copper by 0.1 ppm). Do not exceed 1 ppm ionic copper (includes copper already in the system plus the new application) per single application.

APPLICATION RATES IN LITRES PER 1000 SQ. METRE SURFACE AREA

Relative Density & Growth Stage	copper ppm	Average Depth of water body in metres			
		0.2	0.4	0.7	1.0
Low Density (Early Season)	0.3	<u>2.0L</u>	<u>4.0L</u>	<u>7.0L</u>	<u>10.0L</u>
Moderate Density (Mid Season)	0.5	<u>3.33L</u>	<u>6.67L</u>	<u>11.67L</u>	<u>16.67L</u>
Heavy Density (Late Season)	1.0	<u>6.67L</u>	<u>13.33L</u>	<u>23.3L</u>	<u>33.33L</u>

Initial application:

Apply in late spring or early summer when algae first appear. PondBrite™ is as equally effective at higher temperature as lower temperature. Application rates vary with higher algae density and growth, hard or turbid water, and flowing water. If there is an uncertainty about the dosage, begin with lower dose and increase until control is achieved, or until the maximum allowable level has been reached.

When possible, treat algae on a sunny day when the heavy mats of filamentous algae are most likely to be floating on the surface where they can be sprayed directly. Physical removal of large mats prior to application of PondBrite™ gives the best results.

PondBrite™ is applied directly on the target algae in the waterbody at a recommended rate, which depends on the existing growth and density of the algae as shown in the table above.

Treatment of algae can result in oxygen loss when the dead algae start to decompose. This oxygen loss can suffocate fish and other pond life. To minimize this hazard, do not treat more than ½ of the water body at once and wait at least 2-3 days between treatments to allow oxygen levels to recover. For applications in water containing fish, do not exceed 0.4 ppm copper in total water body.

Do not apply more than 1.0 ppm as ionic copper. Routine monitoring of dissolved copper concentration in water is highly recommended to avoid the out break (bloom) and overuse of the product.

CONTROL OF BLUE-GREEN ALGAE in Ponds (Ornamental) and Decorative Water Features:

PondBrite™ APPLICATION RATES FOR BLUE GREEN ALGAE (CYANOBACTERIA) IN WATER

Treatment to Target Blue Green Algae Stages		
Stage of Bloom	Ionic Copper (ppm)	Ionic Copper (ppb)
Mild Cyanobacteria Existence	0.060	60
Full Algae Existence	0.120	120
Worse (Outbreak)	0.180	180
Shock Treatment	0.250	250

CALCULATION OF AREA TO BE TREATED

- Obtain surface area by measuring regular shaped ponds as shown below in the table or mapping irregular ponds or by use of previously recorded data or maps.
- Calculate average depth by sounding in a regular pattern and taking the mean of these readings or by use of previously recorded data.

Calculate the total volume of the water in litres:

Shape of Pond	Formula for Litres (measurement in meter)
Rectangular	Length (m) x Width (m) x Depth (m) x 1000 = Litres
Circle	Diameter (m) x Diameter (m) x Depth (m) x 786 = Litres
Oval	Length (m) x Width (m) x Depth (m) x 786 = Litres

- **Direct Pour:** For small ponds and decorative water features (fountains and waterfalls), apply by pouring PondBrite™ directly from the container into the water around half of the perimeter of the body of water. Several evenly spaced application points will speed up dispersal.

PRECAUTIONS

CORROSIVE to the eye. DO NOT GET in eyes. Corrosive to skin. DO NOT get on skin. Wear goggles, long pants, a long-sleeved shirt and shoes plus socks during mixing/loading, application, clean-up and repair. In addition, wear rubber gloves during mixing/loading, clean-up and repair.

Wash immediately after use. Wash contaminated clothing separately with soap and hot water before reuse.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. For use in water wholly confined to the property of the user and where there is no outflow beyond the property limits.

ENVIRONMENTAL PRECAUTIONS: TOXIC to aquatic organisms (copper sensitive aquatic plants, invertebrates, and fish). **When fish are present, special application procedures must be followed.** Contact distributor before treating water inhabited by fish.

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 centre 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 centre or doctor for treatment advice.

IF SWALLOWED: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

Note: Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

HANDLING: Handling and storage equipment must be fibreglass, PVC, polypropylene, viton (synthetic rubber), or stainless steel (both 304 and 316 grades). NEVER use nylon, aluminum, copper, brass or mild steel parts or components in contact with full strength product. Fabrics containing cotton may dissolve on contact with full strength PondBrite™. Always rinse equipment with plenty of fresh clean water. Do not allow product to freeze. If product does freeze, it can be warmed to room temperature and mixed until clear without any loss of efficacy.

STORAGE: Store this product away from food or feed.

DISPOSAL: DO NOT reuse the empty containers. Dispose in household garbage. Unused or partially used products should be disposed at provincially or municipally designated hazardous waste disposal sites.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.