

# Belclene® 313

Algicide

For Control of Algae and Certain Weeds  
in Utility Cooling and Wastewater Treatment Ponds

Active Ingredient:  
Simazine:  
2-chloro-4,6-bis  
(ethylamino)-s-triazine 80%  
Inert Ingredients: 20%  
Total: 100%

EPA Reg. No. 40810-3  
EPA Est. No. 100-AL-1

Keep Out of Reach  
of Children.

Warning:  
See additional precautionary  
statements on panel at left.

See directions for use on  
panel at right and back.

Twenty-five Pounds  
Net Weight

CIBA-GEIGY

**Precautionary Statements:  
Hazard to Humans and Domestic Animals**

**Warning**

**Causes Eye Irritation:** Do not get in eyes. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust or spray mist. Avoid contact with skin or clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

**First Aid: In case of contact.**

**Eyes:** Flush with plenty of water for 15 minutes. Get medical attention if irritation persists.

**Skin:** Wash with soap and water.

**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth; get medical attention.

**Environmental Hazards**

Do not contaminate domestic, livestock, or irrigation water supplies, or lakes, or streams. Do not contaminate water supplies by disposal of wastes.

**Important**

Read the entire **Conditions of Sale and Warranty** and label directions before using this product.

**Conditions of Sale and Warranty**

The **Directions for Use** of this product reflect the opinion of experts, based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness, or other unintended consequences, may result because of such factors as the presence of other materials or the manner of use, all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

The following supercedes any provision in your company's forms, letters and papers. CIBA-GEIGY makes no warranty, whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose for this product. No statements or recommendations contained in the product literature are to be construed as inducements to infringe any relevant patent now or hereafter in existence. Under no circumstances shall CIBA-GEIGY be liable for breach of warranty, strict liability or any other theory, arising out of the use or handling of this product. The sole liability of CIBA-GEIGY for any claims arising out of the manufacture, use or sale of its products shall be for the buyer's purchase price.

CIBA-GEIGY Corporation  
Plastics & Additives Division  
Three Skyline Drive  
Hawthorne, NY 10532

**General Information**

Belclene 313 may be used in ponds containing water, or it may be applied to the bottoms of drained ponds for control of several aquatic weeds and algae. Control of weeds is usually season-long. Algae may be controlled for one to three months or may require retreatment later in the season. In ponds containing fish, applications should not be made to water during prolonged periods of hot weather. Because levels would normally be low at these times, treatment could induce additional oxygen stress to fish, resulting occasionally in fish kills. If fish stress is observed, aerate the water by any method to reduce the chances of a fish kill. Use only in ponds which will have little or no outflow after treatment. Do not use Belclene 313 as spot treatment.

**Directions for Use**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Apply fertilizer 7-10 days after a Belclene 313 application in ponds that have a regular fertilization program. A few days delay in bloom of planktonic algae and a reduction in the extent of bloom may occur when Belclene 313 is used in ponds that receive fertilization.

**Application To Water****When to Apply**

Treat ponds early in the weed and algae growth period. Treat when 5-10% of the pond surface is covered with algae mats or scum and/or while submerged aquatic weeds are actively growing, but before they reach the surface of the water. Usually, this will be between April 1 and May 15 in southern areas and between May 1 and June 15 in northern areas.

High water temperatures cause rapid decay of dead weeds and algae. This leads to reduced oxygen content which can cause fish stress and/or death. Apply Belclene 313 before water temperature exceeds 75°F (22°C).

Do not treat ponds with heavy infestations of weeds and/or algae, such as occurs in mid and late summer, since decomposition of heavy vegetative growth greatly reduces oxygen content of water which can cause fish stress and/or death.

**How to Apply**

After determining the amount of Belclene 313 required to treat the entire pond, mix convenient portions, such as 5 or 10 pounds, with enough water in a pail or bucket to form a thin paste or slurry. Toss the paste or slurry into the pond from the shoreline. Repeat this operation at several locations around the pond until the required amount has been applied. It is not necessary to use spray equipment or to evenly distribute Belclene 313 over the surface, since it will dissolve in water and evenly distribute itself throughout the entire pond. Do not spill paste or slurry on pond banks as injury to vegetation will occur.

**Rates of Application**

The appropriate rate of Belclene 313 depends on the types of algae or weeds present and the extent of infestation. Rates are given in pounds of Belclene 313 per acre foot of water. Determine the number of acre feet of water in a pond by multiplying the surface acres by the average depth in feet.

#### Algae Control

Most unicellular algae (algae which impart a green, yellow, red, or brown turbid color to the water) and many floating mat (pond moss) algae may be controlled with 1.7 to 3.4 pounds Belclene 313 per acre foot of water. If the algae infestation is light, use 1.7 pounds. If moderate, use 2.5 to 3.4 pounds of Belclene 313 per acre foot.

Cladophora, Chara, Hydrodictyon (water net algae), Pithophora, and most other algae which form on the pond bottom (benthic), or which produce underwater plumes that break loose and float on the surface, require 4.25 pounds of Belclene 313 per acre foot of water. Two applications at 4.25 pounds per acre foot of water are usually required for control of Pithophora. If a second treatment is needed, apply at the first sign of algae buildup.

Algae control should occur within three to fourteen days after application, depending upon type of algae. Unicellular algae are usually controlled sooner than benthic filamentous algae. Due to uncontrollable factors such as infestation with later appearing algae, some ponds may require retreatment in mid or late summer. If retreatment becomes necessary, apply at the first signs that algae (mats or moss) is building up. Do not treat just before freezing is expected, since water oxygen levels may be lowered during ice cover.

#### Weed Control

Submerged weeds, including pond weeds (*Potamogeton* spp.), naiad (*Najas* spp.), watermilfoil (*Myriophyllum* spp.) and coontail (*Ceratophyllum* spp.) may be controlled with 3.4-6.8 pounds of Belclene 313 per acre foot of water. Use 3-4 pounds for light infestations and 5.1 to 6.8 pounds per acre foot of water for moderate infestations. For control of fanwort (*Cabomba* spp.), use 8.5 pounds of Belclene 313 per acre foot.

Control of submerged weeds, except coontail, occurs in 4-6 weeks. Coontail control may require 10 weeks.

Floating weeds, including duckweed (*Lemna* spp.) and watermeal (*Wolffia* spp.) may be controlled with 3.4-6.8 pounds of Belclene 313 per acre foot of water. Within this range, use lower rates for light infestations and higher rates for moderate infestations.

Where watermeal occurs alone or with other weeds, control is most effective with the split application. Apply one-half of the recommended rate initially followed in 3-4 weeks with a repeat application if control is not satisfactory.

Control of duckweed occurs in 1-5 weeks and watermeal in 5-9 weeks.

#### Application to Bottoms of Ponds with Draining Capabilities

Treat bottoms of drained ponds having a minimum average depth of two feet before regrowth of existing submerged weeds begins or before new weeds emerge.

Allow at least 72 hours for Belclene 313 to become absorbed in the soil before refilling the pond. Sprinkler irrigation or gentle rainfall after applying Belclene 313 will help move Belclene 313 into the surface soil, enhancing its effectiveness. Heavy rainfall during this period may erode treated soil, resulting in poor weed control.

#### Mixing Instructions

Make a slurry by adding Belclene 313 to a small amount of water in a separate container. Then pour the slurry into the spray tank partially filled with clean water, and add the rest of the water. Apply Belclene 313 with constant agitation in 20-40 gallons of water per acre. Do not spill the slurry on pond banks as injury to vegetation will occur.

#### Spray Equipment

Use conventional spray equipment with fan-type nozzles. Screens in nozzles, as well as those in suction and in-line strainers, should be no finer than 50-mesh.

Use a pump with capacity to maintain 35-40 psi at the nozzles. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture in suspension.

Wash sprayer thoroughly with clean water immediately after use.

Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

#### Algae Control

Apply 10-12.5 pounds of Belclene 313 per acre as a broadcast spray for control of the algae indicated under the section, Application to Water. Use 10 pounds per acre for expected light infestations and 12.5 pounds per acre for expected heavy infestations.

#### Weed Control

Apply 10-15 pounds of Belclene 313 per acre for control of American lotus, duckweeds, fanwort, naiad, pond weeds and watermilfoil.

Within the rate range, use the lower rate of Belclene 313 for soils with large amounts of sand or where there have been light infestations of weeds, or where algae dominates. Use the higher rate for soils high in silt and clay and where there have been heavy infestations of weeds.

#### Note

Do not apply more than once each year to bottoms of drained ponds.

#### Use of Water

Water from treated ponds may not be used for irrigation or spraying of agricultural crops, lawns, or ornamental plantings, or for watering cattle, goats, hogs, horses, poultry, or sheep or for human consumption.

#### Precaution

Do not treat ponds which have bordering trees with roots visibly extended into the water, since injury to these trees may occur.

#### Storage and Disposal

Store in a dry place. Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.

#### Pesticide Disposal

Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State, or local procedures under the Resource Conservation and Recovery Act.

#### Container Disposal

Dispose of bags according to approved Federal, State or local procedures under the Resource Conservation and Recovery Act.