



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:  
33136-1

Date of Issuance:  
JUN 23 2006

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance:  
Conditional

Name of Pesticide Product:  
BRC 260 Algaecide/Herbicide

Name and Address of Registrant (include ZIP Code):

*Brewer International  
P.O. Box 690037  
Vero Beach, Florida 32969-0037*

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Section 4.
2. Make the following label changes before you release the product for shipment:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. 33136-1." Also change the semi-colon (;) in "...Farms: Fish..." at the top of the page, to a comma.
  - b. In the second sentence in the "If Swallowed:" subsection of the "FIRST AID" section, change "Have a person sip a glass..." to "Have the person sip a glass...".

Signature of Approving Official:

Tony Kish, Product Manager (22)  
Fungicide Branch, Registration Division (7505P)

Date:

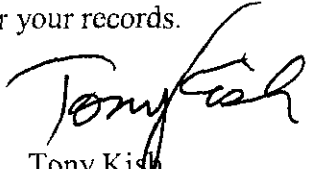
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- c. In the second sentence in the "GENERAL INFORMATION" section, on page 3, change "Potomogeten" to "Potomogeton".
- d. The third sentence from the end in the "GENERAL INFORMATION" section, "(After further treatment)", is newly added but does not make sense. Either delete it or modify it so that its meaning is clear.
- e. Change the second to the last sentence in the "GENERAL INFORMATION" section from "Water treated with BRC 260 may be used for swimming, fishing, drinking, livestock watering..." to "Water treated with BRC 260 may be used for swimming, fishing, drinking (after further potable water treatment), livestock watering..."
- f. In the first sentence in the "ALGAEICIDE APPLICATION" section, change "BRC 260 can be applied by as a..." to "BRC 260 can be applied as a..."
- g. The first sentence at the top of page 4 now starts off "Planktonic algae and free floating...". Change it back to "For planktonic algae and free floating..."
- h. Change the ending of the last sentence in the first paragraph on page 4 from "...to avoid trapping fish in coves or enclosed areas." to "...to avoid trapping fish in coves or enclosed areas and to minimize fish kills that can result from oxygen depletion caused by rapid decomposition of vegetation."
- i. In the first sentence in the second paragraph on page 4, change "...for storage tanks holding water..." to "...for water holding or storage tanks..."
- j. In the first sentence in the second paragraph on page 4, change "0.4 P" to "0.4 ppm".
- k. In the subheadings for the table in the "HERBICIDE APPLICATION" section, assure that "Copper" relates to "ppm", rather than to "Growth Stage Relative Density", by placing "copper" under the black horizontal table line running under "ppm" (i.e., place "copper" in the table immediately below "ppm").
- l. Restate the last sentence in the first paragraph in the "FOR WATER HYACINTH CONTROL" to the following: "Do not use the hyacinth control application rate which produces copper concentrations greater than 1.0 ppm, in any waters containing fish and/or invertebrates, and/or which is a source of potable water."
- m. Change the first sentence in the second to the last bulleted item in the "GENERAL TREATMENT NOTES" section from "Retreat is required." to "Retreat as required."
- n. Change the topmost formula in the "To calculate number of gallons or liters:" component in the "GENERAL TREATMENT NOTES" section from "L(m) x W(m) x D(m) x 7.5 = Gallons" to "L(ft.) x W(ft.) x D(ft.) x 7.5 = Gallons".

- o. On page 5, change "ROOFING AND CONSTRUCTION MATREIALS APPLICATION" to "ROOFING AND CONSTRUCTION MATERIALS APPLICATION".
  - p. Under the "ROOFING AND CONSTRUCTION MATERIALS APPLICATION" section, in the first sentence of the second paragraph, and in the first section after "For Remedial Treatment of Mold on Construction Materials:" change "Applications should be made by..." to the following, "Applications must be made by...".
  - q. The second sentence after "For Remedial Treatment of Mold on Construction Materials:" starts off, "Materials consist of but not limited to...". Change this to "Materials being treated include plywood.....".
  - r. Delete the two sentences, "Use of a fogging machine is acceptable. Follow manufacturers' directions regarding rates". Fogging requires specific use directions (eg., enclosures, exhausting, reentry, air monitoring, etc.) and a fogging device operators manual must be referenced on the label. Additionally, PPE (eg., respirators) is required. All this specificity is missing from the label. Furthermore, an occupational risk assessment is needed to approve this new use. As per the developing copper RED, and/or other program requirements, labels will be brought into harmony with these requirements. We have blacked out these sentences on the stamped label.
3. Submit one copy of the revised final printed label (incorporating the changes herein) for the Agency's records, before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation, in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.



Tony Kish  
Product Manager (22)  
Fungicide Branch  
Registration Division (7505P)

Enclosures

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# BRC 260

ALGAECIDE/HERBICIDE

## RESIDUAL CONTROL

**FOR USE IN: LAKES; POTABLE WATER RESERVOIRS; FARMS; FISH, INDUSTRIAL, AND GOLF COURSE PONDS; CROP AND NON-CROP IRRIGATION CONVEYANCE SYSTEMS; CANALS, DITCHES, AND LATERALS; FISH HATCHERIES, ROOFING AND CONSTRUCTION MATERIALS.**

**Active Ingredient:**

\*Copper Sulfate Pentahydrate .....19.8%

**Other Ingredients:**.....80.2%

Total.....100%

\* Metallic copper equivalent 5.04%

**KEEP OUT OF REACH OF CHILDREN**

### DANGER

#### 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 Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have a 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 a poison control center or doctor for further 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. Have the product container or label with you when calling a poison control center or doctor or going for treatment. (You may also contact Chem\*tel at 1-800-225-3924 for emergency medical treatment information.)

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

JUN 23 2006

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.**

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

Corrosive: Causes irreversible eye damage. Do not get in eyes, or skin, or on clothing. Wear goggles or safety glasses when handling. Harmful if swallowed, inhaled, or absorbed through skin. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Avoid contact with skin. Wash thoroughly with soap and water after handling, and before eating drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. As with all chemical applications, apply best management practices to avoid unnecessary contact with concentrate or spray mixture. For 24 hour assistance or information regarding spill, leak, fire, or exposure to this product, please call Chem\*tel at 1-800-255-3924.

**ENVIRONMENTAL HAZARDS**

**Fish and Aquatic Organisms:** This product may be toxic to Trout, Koi, and other species of fish at application rates recommended on this label, especially in soft or acidic waters. Fish toxicity is directly correlated with water hardness and generally decreases as the hardness of the water increases. If the carbonate hardness is below 50 ppm, do not use this product in waters containing susceptible fish species without consulting Brewer International, or local authority prior to treatment. Direct application of BRC 260 to water may cause a significant reduction of populations of aquatic invertebrates, plants and certain species of fish. Do not treat more than one-half of a lake or pond at one time in order to avoid depletion of oxygen from decaying vegetation. Allow 1 to 2 weeks between treatments for oxygen levels to recover.

Do not contaminate water when disposing of equipment wash waters (See disposal instructions). Consult your Local State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters.

**Endangered Species Restrictions:** It is a violation of Federal laws to use any pesticide in a manner that results in the death of an endangered species or adverse modification of their habitat. The use of this product may pose a hazard to certain federally designated endangered species known to occur in specific areas within the following counties:

<b>STATE</b>	<b>SPECIES</b>	<b>BULLETIN NO.</b>	<b>COUNTY</b>
California	Solano Grass	EPA/ES-85-13	Solano
Tennessee	Slackwater Darter	EPA/ES-85-04	Lawrence Wayne Hancock
	Freshwater Mussels	EPA/ES-85-07	Claiborne Hawkins Sullivan
Alabama	Slackwater Darter	EPA/ES-85-05	Lauderdale Limestone Madison
Virginia	Freshwater Mussels	EPA/ES-85-06	Grayson Smyth Scott Washington Lee

\*\*\*Please Note\*\*\* Before using this product in the above counties, you must obtain the EPA bulletin specific to your area. This bulletin identifies areas within these counties where the use of this pesticide is prohibited, unless specified otherwise. The EPA bulletin is available from either your county Agricultural Extension agent, the Endangered Species Specialist in your state Wildlife Agency Headquarters, or the appropriate Regional Office of the U.S. Fish and Wildlife Service.

**THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE USE.**

**Potable Water:** Do not allow water containing in excess of 1 ppm copper derived from BRC 260 to flow into any water to be used as potable water.

**Terrestrial Plants:** Do not apply this product in its concentrated form directly to any crop plants, grass or ornamental plants as injury may result.

EPA File Symbol No. 33136-R

EPA EST. 033136-FL-001

NET CONTENTS: 2.5 GALLONS (9.46 LITERS)

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**APPLICATION AND HANDLING**

This product is corrosive to cotton fabrics. Do not allow clothing to come in contact with concentrate or dilution. Application, handling, or storage equipment **MUST** consist of fiberglass, PVC's polypropylenes, viton, most plastics, or stainless steel. Never use mild steel, nylon, brass, or copper around full strength BRC 260. Wash spray equipment after each application.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Permits for the use of this product in public water may be required. Check with local authorities.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**Storage:** BRC 260 is a concentrate and must be stored in its original container or handled and stored as outlined above (please see "APPLICATION AND HANDLING"). **Do not allow BRC 260 to freeze, freezing may cause product separation.** Seller makes no warranty for performance of the product that has been frozen. Keep container closed when not in use. In case of a spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is 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 Hazardous Waste Representative at the nearest EPA Regional Office for Guidance.

**Container Disposal:** Triple rinse all containers prior to disposal and then offer for recycling, puncture and dispose of in an approved manner, or dispose by incineration if allowed by local and state authorities. If disposal is by incineration, stay out of smoke.

**GENERAL INFORMATION**

**BRC 260** is effective in controlling a broad range of algae including Chara Spirogyra, Cladophora, Ulothrix, and Oscillatoria.

In addition, **BRC 260** is effective in controlling rooted and floating aquatic plants such as Hydrilla, Potamogeton sp., and Water Hyacinth.

Also, **BRC 260** is very effective in controlling bacterial odors associated with organic waste. These odors should be noticeably reduced within 1-2 weeks after treatment.

The formulation of **BRC 260** protects against the precipitation of copper with carbonates and bicarbonates in the treated water and results in increased time of exposure for true residual activity.

In addition, this formulation allows for application at any time – including overcast/cloudy conditions as well as during nighttime hours. (After further treatment)

Water treated with **BRC 260** may be used for swimming, fishing, drinking, livestock watering, and irrigation immediately after treatment.

For best results, apply when livestock water consumption is low or watering area is not in use.

(AFTER FURTHER  
POTABLE WATER  
TREATMENT)

**ALGAEICIDE APPLICATION**

**BRC 260** can be applied by as a surface spray, or by injection. For effective control the proper chemical concentration should be maintained for a minimum of three hours duration to assure adequate uptake. The application rates in the chart below are based on static or low flow conditions. When significant dilution occurs from inflow of untreated waters within a three-hour period the chemical may need to be metered. (See drip system application)

- Identify the algae growth present as one of the following; planktonic, filamentous, or Chara.
- Determine the surface area and average depth to be treated.
- Refer to the chart below to determine gallons of BRC 260 to apply per surface acre.

**CHART 1**

**Application Rates  
Gallons per Surface Acre**

Algae Type	Average Depth in Feet				
	ppm Copper	1	2	3	4
Planktonic	0.2	1.0	2.2	3.2	4.3
Filamentous	0.2	1.0	2.2	3.2	4.3
Chara	0.4	2.2	4.3	6.5	8.6

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Planktonic algae and free floating filamentous algae mats, application rates should be based on treating the upper 3-4 feet of water where the algae is growing. If infestation is heavy, treat only 1/2 to 1/3 of the water body at a time to avoid trapping fish in coves or enclosed areas.

Before application, dilute BRC 260 with sufficient water to ensure even application to the affected area. For quickest results, apply when conditions are calm and sunny. However, this product can be applied whenever weather allows or during nighttime hours. A hand or power sprayer may be used. Treat shoreline areas first and then continue treatment, as needed, into main water body.

For algaecide application in waters used for livestock, for storage tanks holding water, apply 1/4 fluid ounce of BRC 260 per 250 gallons of water (8 milliliters per 1,000 liters) to achieve the desired 0.4 P (mg/L) of copper for algae control. Product can be simply added to the water column as the residual control will allow for even distribution through out the water column. Where existing algae mats are present at time of treatment, most effective control will be obtained by breaking up and/or evenly dispersing diluted BRC 260 over the mats. Apply BRC 260 as needed in times of higher water temperatures.

**HERBICIDE APPLICATION**

For rooted and submerged plants

Control of many rooted and submerged plants such as Hydrilla and Potamogeton can be obtained from use of BRC 260 to give Copper concentrations at 0.4 - 1.0 ppm. Choose the application rate dependent up the density and stage of growth and the water depth from the chart below.

**Application Rates  
Gallons per Surface Acre**

Growth Stage	Relative Density Copper ppm	Average Depth in Feet			
		1	2	3	4
(Low Density)					
Early Season	0.5	2.2	4.4	6.6	8.8
(Moderate Density)					
Mid Season	0.7	3.8	7.6	11.4	15.2
(Heavy Density)					
Late Season	1.0	5.4	10.8	16.2	21.6

Application rates for depths greater than 4 feet may be obtained by adding the rates above to give the proper depth. Do not exceed copper concentration of 1.0 ppm copper in the treated water.

**FOR WATER HYACINTH CONTROL**

The following mixture can be used as a **control** method for water hyacinth and other floating aquatic vegetation (Effective eradication requires stronger rates and/or mixtures with other herbicides – please call for specific information). Do not use this application rate in any waters leading to, or have fish or invertebrates, or a source of potable water.

Mix 1 gallon of BRC 260 per 7 gallons of water. Apply this solution as a coverage spray to thoroughly wet all exposed vegetation. In areas of heavy infestation, multiple applications may be required. Applications may be repeated after 7-day intervals. Non-ionic adjuvants should be used with this product to improve dispersion and/or adhesion.

**DRIP SYSTEM APPLICATION FOR FLOWING WATER**

BRC 260 should be applied as soon as algae/bacteria or plants begin to interfere with normal or desired water uses. Heavy infestations and flows may cause poor chemical distribution resulting in unsatisfactory control. Under these conditions, continuous feed systems offer advantage. Prior to treatment it is important to determine the water flow rates. In the absence of weirs, or flow determining devices for this information, water flow may be estimated as shown below.

*Avg. width X Avg. Depth X Velocity in feet/sec. X 0.9 = CFS (Cubic Feet/Second)*

Velocity is the time it takes for a floating object to move a given distance. This measurement should be made as the average of at least three determinations taken at the treatment location.

Calculate the drip rate of BRC 260 from the chart below (based on heavy algae growth).

Water Flow Rate	BRC 260 drip rate			
	Gal./Min.	Qts./Hr.	ML/Min.	Fl. Oz./Min.
1	450	3.6	58	2.0
2	900	7.2	116	4.0
3	1350	10.8	170	6.0
4	1800	14.4	226	7.6
5	2250	18.0	284	10.0

Calculate the amount of BRC 260 needed to maintain the drip rate for a period of 4 hours by multiplying Qts./Hr. by 4, ML/min. by 240 or FL Oz/Min. by 240. **This dosage will maintain the Copper level at 2.0 ppm for 4 hours (to be used as general reference rate to control heavy algae growth). Effective control of most algae species can be obtained with Copper levels between .5 – 1.8 ppm maintained for 4-6 hours.** The chemical must be introduced at a point of turbulence. Place the required amount of BRC 260 into a tank equipped with a needle valve and set the drip rate as required using a stop watch and a measuring tube. Readjust as required if flows change. Distance of control will vary. Treatment points should be determined in the field and placed at the required intervals for control. Periodic maintenance treatments may be required.

### GENERAL TREATMENT NOTES

The following suggestions apply to the use of BRC 260 as an algaecide or herbicide:

- The product works best at temperatures at or above 60 degrees F.
- Treat when growth first appears or nuisance is first noted.
- Apply in a manner to insure even distribution in the treatment area.
- Retreat is required. Allow 1 to 2 weeks between treatments.
- **Formula for water-column treatment: Gallons of BRC 260 needed X 50,000 ppm = Gallons of water to be treated X Desired ppm of treatment (from Chart)**  
**Conversion factors: cubic feet X 7.48 gallons**  
**one acre/foot = 326,000 gallons (one acre = 43,560 square feet)**

#### To calculate number of gallons or liters:

**For square or rectangular bodies of water:**

$$L(m) \times W(m) \times D(m) \times 7.5 = \text{Gallons}$$

$$L(m) \times W(m) \times D(m) \times 1000 = \text{Liters}$$

**For circular or elliptical bodies of water:**

$$L(ft.) \times W(ft.) \times D(ft.) \times 5.9 = \text{Gallons}$$

$$L(m) \times W(m) \times D(m) \times 786 = \text{Liters}$$

### ROOFING AND CONSTRUCTION MATERIALS APPLICATION

**BRC 260** can be applied as treatment for roofing and construction materials for algae, bacteria, and fungus. This treatment is effective on, asphalt shingles (all types), concrete, clay, barrel/flat tile and stone roofs.

Application should be made by professional applicators only. Pre-cleaning the roof (pressure cleaning) is only to be done to concrete, clay or stone roofs, and only when there is discoloration due to algae, bacteria, and fungi infestation.

For control of algae, bacteria and fungi on these types of roofing materials, use a dilution rate of 4 fluid ounces of BRC260 to 1 gallon of water. This rate will cover 100 sq. feet. This application is made using low volume wand sprayer with fine mist tip. Application should be made standing on the roof spraying from a distance of 1.5 to 2 feet. Apply when a period of no significant rain is expected. No rinsing is necessary.

For asphalt shingles, never pre-clean. Use dilution rate of 4 fluid ounces per 1 gallon of water. For heavier infestation use 6 fluid ounces. This rate will cover 100 sq. feet. Professional applicator should be standing on roof using low volume sprayer with fine mist tip. Distance of 1.5 to 2 feet for application when no significant rain is expected. No rinsing is necessary.

One application will eliminate the infestation of algae, bacteria and fungi and the roofing materials should return to original color within 3 to 6 months. This treatment will last up to two years. Do not apply directly to foliage, grass, and trees. Keep runoff from roof away from foliage, grass, and trees. Application may be made on all roofing materials at temperature range of 32 deg. to 150 deg. Fahrenheit.

For Remedial Treatment of Mold on Construction Materials: Applications should be made by trained applicators only. Materials consist of but not limited to, plywood, roof sheeting OSB board, trusses, wood studs, furring strips, support members, wood framing, exterior siding, baseboards, CBS block and concrete tie bears. Use dilution rate of 4 fluid ounces per one gallon of water. This rate will cover 100 sq. feet. Application should be made by professional applicator using low pressure wand sprayer with fine mist tip. This application should be made from distance of 1.5 to 2 feet. Spray to cover and let dry.

### LIMITED WARRANTY AND LIMITATION REMEDIES

Seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions or under abnormal conditions not foreseeable to the seller. In no case shall the seller be liable for more than the cost of the product to the buyer, and will in no event be liable for any consequential, special or direct damages connected with the use or handling of this product. This product is offered and the buyer or user accepts it subject to the forgoing terms, which may not be varied.