



ARKANSAS
STATE PLANT
BOARD

P.O. Box 1069 ■ Little Rock, Arkansas 72203
www.plantboard.org
Phone (501) 225-1598
Fax (501) 219-1697

Darryl Little
Director

April 18, 2012

To whom it may concern:

Please find enclosed the Section 18 Specific Exemption for Brake to control glyphosate-resistant Palmer Amaranth in cotton in Arkansas.

Also enclosed is the form to report Section 18 applications.

If you have any questions or need further information, please call me at 501-225-1598.

Sincerely,

A handwritten signature in cursive script that reads "Brandi Reynolds".

Brandi Reynolds
Assistant Director
Pesticide Division

Section 18 - Specific Exemption Use Directions



SePRO Corporation 11550 N. Meridian St., Suite 600, Carmel, IN 46032 USA

BRAKE[®]

HERBICIDE

GROUP 12 HERBICIDE

EPA Reg. No. 67690-48

Section 18 Specific Exemption

(For Distribution and Use Only in the State of Arkansas for the following counties: Clay, Crittenden, Desha, Drew, Jefferson, Lee, Phillips, and Mississippi.)

FOR USE IN COTTON TO CONTROL GLYPHOSATE-RESISTANT PALMER AMARANTH.

ATTENTION

- This specific exemption is effective April 1 2012 through August 1st 2012
- It is a violation of Federal Law to use this product in a manner inconsistent with the conditions and provisions under this Section 18 exemption.
- These use directions must be in the possession of the user at the time of application.
- Read the label affixed to the container for BRAKE herbicide before applying. Carefully follow all applicable directions, restrictions, PPE requirements and precautions on the label affixed to the container of BRAKE and on the Section 18 use directions.
- A report of each application must be filed with the Plant Board within 10 days of the application.
- Reports may be mailed to: Arkansas State Plant Board, PO Box 1069, Little Rock, AR 72203 or faxed to (501) 312-7053.
- Any adverse effects resulting from the use of BRAKE under this emergency exemption must be immediately reported to the Arkansas State Plant Board at (501) 225-1598.

DIRECTIONS FOR USE

RESTRICTIONS

Do not apply BRAKE over the top of cotton plants.

ROTATIONAL CROP RESTRICTIONS

BRAKE may persist in the soil past the cotton growing season. To avoid difficulties in establishing rotational crops, the following precautions must be followed:

- **Do not make more than two consecutive applications of BRAKE.** After the second application, use an alternative herbicide effective in controlling the weeds of concern. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.
- **Apply prior to planting or prior to emergence of cotton;**

- Only apply in fields where cotton will be planted both in the year of application, and in the year following application, and not rotated with another crop, unless the following crop rotational restrictions are followed:
 - 18 months – Do not plant grain sorghum, sugar beet, tomatoes and other Solanaceae family of crops for at least 18 months after the last BRAKE application;
 - 12 months – Do not plant all other crops for at least 12 months after the last BRAKE application;
 - 6 months – Any cover crop.
 - To minimize potential injury to rotational crops, fields that are treated with BRAKE must be tilled prior to planting rotational crops or crops other than cotton.
- In the event of poor cotton stand due to adverse weather, the field may be replanted with cotton following light tillage or planted in the undisturbed soil. Poor weed control may result if directions are not followed. Over-application may result in crop injury or injury to rotational crops.

WEEDS CONTROLLED

Use BRAKE only for the control of palmer amaranth populations with resistance to glyphosate.

BRAKE will not control established weeds.

SOIL PREPARATION

Destroy existing weeds before using BRAKE.

MIXING AND APPLICATION DIRECTIONS

Apply BRAKE evenly and uniformly to the soil surface with a minimum spray solution of 10 to 50 gallons per acre. Add the specified amount of BRAKE to water in the spray tank during the filling operation and agitate thoroughly. BRAKE may also be directly metered into the pumping system where it is diluted with water.

APPLICATION RATES

Broadcast Application

Apply BRAKE as a preplant soil incorporated or surface application at or prior to planting at 2.5 to 6.25 quarts per acre for the control of glyphosate resistant palmer amaranth. Refer to Table 1 for specific rates by soil type. The lower rates should be used in soils where weed pressure is low and the higher rates in soils where weed pressure is heavy.

Table 1. Rate of BRAKE to apply in cotton to control glyphosate resistant palmer amaranth.		
Soil Texture	Quarts/acre	Pounds a.i./acre
Coarse (sand, sandy loam, loamy sand, or loam)	2.5 to 3.75	0.2 to 0.3
Medium (silt loam, sandy clay loam, silty clay loam [†] , silt)	3.75 to 5.0	0.3 to 0.4

Fine (clay loam, silty clay loam [†] , silty clay, clay)	5.0 to 6.25	0.4 to 0.5
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[†]Silty clay loam is a transitional soil and may be classified as medium or fine.

Band Application

For best results, apply BRAKE as a banded application. When BRAKE is applied on a band, the following formula must be used to calculate the rate per acre:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Rate in Quarts}}{\text{Acre for broadcast treatment}} = \frac{\text{Quarts}}{\text{Acre band treatment}}$$

Band width must not exceed 50% (one-half) the cotton row width.

INCORPORATION DIRECTIONS

Incorporation in Flat Cultures

BRAKE can be incorporated up to the time of planting or during the planting operation. For the best results, use machinery that mixes BRAKE thoroughly in the soil. Incorporation should place BRAKE in the upper 2 to 3 inches of soil. Generally, incorporation equipment will place the chemical approximately half as deep as the equipment is operated.

Incorporation in Bedded Culture

For the most effective weed control, seedbeds must be well prepared, of uniform height and width, and should be free of trash and clods. Incorporate BRAKE thoroughly in the top 2 to 3 inches of the final seedbed. BRAKE can be applied and incorporated anytime prior to bedding. When bedding after BRAKE application, do not furrow out deeper than the depth to which BRAKE was incorporated. Furrowing too deeply will expose untreated soil and allow weeds to germinate in the bottom of the furrow. When applying BRAKE to bedded soil, knock off beds to planting height before application and incorporation.

Incorporation Equipment

Use machinery that mixes BRAKE thoroughly with the soil. Shallow incorporation with implements set to cut less than 2 inches deep may result in erratic weed control. The following incorporation equipment may be used:

- 1) Disc set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph
- 2) Rolling cultivator set to cut 2 to 4 inches deep and operated two times at 6 to 8 mph
- 3) Bed conditioner (Do-All) set to cut 2 to 4 inches deep and operated one time at 4 to 6 mph
- 4) PTO-driven equipment (tillers, cultivators, hoes) set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil and operated one time. PTO-driven equipment should not be operated at a speed greater than 4 mph.

SURFACE APPLICATION (PREEMERGENCE) DIRECTIONS

When BRAKE is surface applied preemergence at or prior to planting to the weeds and crop, rain or sprinkler irrigation is required to place BRAKE in the weed seed germination zone. A cultivation will incorporate BRAKE and control emerged weeds without the loss of activity if moisture is not received after application.

TURNROWS AND DITCHBANKS

BRAKE may be applied to the turnrows or ditchbanks adjacent to your surrounding cotton fields. Remove or destroy all existing biomass prior to application, or apply early in year prior to weed emergence. Apply a maximum of 1.56 gallons per acre/year.

FPL20120411

Report of Section 18 Application

Pesticide: _____

Applicator's Name: _____

Applicator's Address: _____

Farmer's Name: _____

Farmer's Address: _____

Acres Treated: _____

Pounds of Active Ingredient per Acre: _____

Location of Treated Area: _____

Date of Application: _____

Time of Application: _____

Mail reports to the Arkansas State Plant Board, PO Box 1069, Little Rock, AR 72203
or Fax to (501) 312-7053. Reports must be submitted within **10 days** of application.