



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 24, 2023

Lei Han, Ph.D.  
Head of Regulatory Affairs  
SePRO CORPORATION  
11550 N. Meridian St., Suite 600  
Carmel, IN 46032

Subject: Registration Review Label Mitigation for Fluridone and Fomesafen  
Product Name: BRAKE F2  
EPA Registration Number: 67690-73  
Application Date: March 4, 2023  
Decision Numbers: 591372, 591373

Dear Lei Han:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Fluridone and Fomesafen Interim Decisions, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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If you have any questions about this letter, please contact DeMariah Koger by phone at (202)-566-2288, or via email at [koger.demariah@epa.gov](mailto:koger.demariah@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

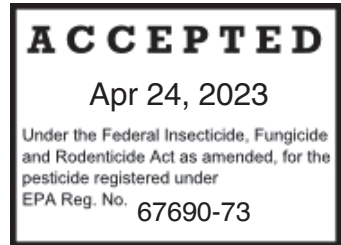
Enclosure

[Front; all containers]



FLURIDONE	GROUP	12	HERBICIDE
FOMESAFEN	GROUP	14	HERBICIDE

# Brake® F2



**Preemergent herbicide for use in cotton to control pigweed**

**Active Ingredients**

fluridone:

1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone ..... 17.26%

sodium salt of fomesafen:

5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-nitrobenzamide... 10.81%

**Other Ingredients** ..... 71.93%

**TOTAL** ..... 100.00%

Equivalent to 1.6 pounds fluridone and 1.0 pound fomesafen active ingredient per gallon.

**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).

**Danger. Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapors or spray mist. 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.**

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>

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

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

**SHAKE WELL BEFORE USING**

**Refer to inside of label booklet for additional Precautionary Information and Directions for Use including Storage and Disposal.**

**NOTICE:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer* and *Misuse* statements inside label booklet. If terms are unacceptable, return at once, unopened.**

**Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.**

EPA Reg. No. 67690-73

EPA Est. No. \_\_\_\_\_

FPL20230305

[SPC]-\_\_\_\_\_

**SePRO Corporation • 11550 North Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.**

**Net contents \_\_\_\_\_ (Non-refillable container)**

*(Booklet text)***PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS****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.)

This product contains fomesafen which has been determined to cause tumors in laboratory animals (mice). Risks can be reduced by closely following use directions and precautions and by wearing the protective clothing specified elsewhere on this label.

**Danger. Corrosive. Causes irreversible eye damage. Do not get in eyes or on skin or clothing. Harmful if swallowed. Harmful if inhaled or absorbed through skin. Avoid breathing vapors or spray mist. 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.**

**PERSONAL PROTECTIVE EQUIPMENT (PPE)****Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants or coveralls worn over short sleeved shirt and pants;
- Chemical-resistant gloves;
- Shoes plus socks; and
- Protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

## ENVIRONMENTAL HAZARDS

For terrestrial use only. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from target area.

### Groundwater Advisory

One or more of the pesticides in this product is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### Surface Water Advisory

This product may impact surface water quality due to spray drift and runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this product from runoff water and sediment. While at least 0.5 inches of rainfall or irrigation is recommended after application, runoff of this product should be avoided and will be reduced by avoiding applications when runoff-producing rainfall is expected to occur within 48 hours. For more information, see the United States Department of Agriculture National Resource Conservation Service's manual, "Conservation Buffers to Reduce Pesticide Losses."

### Non-Target Organisms Advisory Statement

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

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## DIRECTIONS FOR USE

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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 agency responsible for pesticide regulation. Ensure spray drift to non-target species does not occur.

Keep containers closed to avoid spills and contamination.

### IN CASE OF EMERGENCY

In case of large-scale spillage regarding this product, call INFOTRAC at 1-800-535-5053.

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment;
- Your local poison control center (hospital);
- INFOTRAC: 1-800-535-5053.

#### Steps to be taken in case material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.

- Remove contaminated clothing, and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted-entry interval, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls worn over short sleeved shirt and pants;
- Chemical resistant gloves;
- Shoes plus socks; and
- Protective eyewear.

### **PRODUCT INFORMATION**

Read all label directions before using. This product is a selective preemergent herbicide for use in cotton to control pigweed (eg *Palmer amaranth*). This product is also active on a range of annual grass and small seeded broadleaf weeds. Depending on application rate and soil type, this product may be applied as preplant or preemergent surface application in coarse, medium or fine textured soils (refer to Table 2 for application rates for this product). Herbicidal symptoms of this product appear as white (chlorotic) or pink growing points in susceptible plant species. Cotton is tolerant to applications of this product when applied according to the label. Some crinkling or spotting on cotton foliage or stunting may occur, especially if heavy rainfall occurs during or soon after cotton emergence, but cotton plants normally outgrow these effects and develop normally.

### **Use Restrictions**

- Do not apply by air.
- Chemigation: Do not apply through any type of irrigation system.
- Do not apply more than 1.5 pints (24 fluid ounces) of this product per acre per year (equivalent to 0.3 pounds fluridone/acre; 0.1875 pounds fomesafen/acre).
- Apply prior to planting or prior to emergence of cotton.
- Do not apply this product over the top of cotton plants as cotton injury will likely occur.
- Do not apply more than 0.375 lb. of fomesafen per acre per year from all sources, if other products containing fomesafen are used during the season.
- Due to the potential for crop injury, tank mixing or use of this product with any other product containing fomesafen shall be at the exclusive risk of the user, applicator and/or application adviser. It is the pesticide user's responsibility to ensure that all products in

the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**Geographic Restrictions**

- This product may be applied in the following states or portion of states: Alabama, Arkansas, Florida (except Miami-Dade County), Georgia, Kansas (all counties East of or intersected by U.S. Highway 281), Louisiana, Mississippi, Missouri, North Carolina, Oklahoma (East of U.S. Highway 75 and East of Indian Nation Parkway), South Carolina, Tennessee, Texas (includes area East of U.S. Highway 77 to State Road 239 including all of Calhoun County), and Virginia. User is responsible for confirming product registration in their state of use.
- Do not apply more than 1 pint (16 fluid ounces) of this product per acre per year in Kansas.

**Use Precautions**

- Thoroughly clean the spray system with water and a suitable tank cleaner before and after each use.
- To provide adequate coverage, it is recommended that ground speed not exceed 10 mph during application.
- Avoid overlapping spray swaths as injury may occur to rotational crops.

**Rotational Crop Restrictions**

This product may persist in the soil past the cotton growing season. To avoid difficulties in establishing rotational crops, the following restrictions in Table 1 must be followed:

<b>Table 1. Rotational crop restrictions for Brake F2.</b>	
<b>Crop to be planted</b>	<b>Minimum rotation interval (months after last Brake F2 application)</b>
Application rate of 16 fluid ounces or less of Brake F2 per acre	
Cotton	0
Soybean and small grains such as wheat, barley, and rye	8
Peanut, rice, corn, and sorghum (except Kansas and Virginia)	10
Sweet potato	12
Alfalfa, sunflower, or tomatoes, peppers, Sorghum (Kansas and Virginia), tobacco and other Solanaceae family of crops	18
Application rates between 16.1 to 20 fluid ounces Brake F2 per acre	
Cotton	0
Peanut	10
Sweet potato	12
Corn, soybean, small grains such as wheat, barley, and rye, and rice	15
Alfalfa, sunflower, sorghum, or tomatoes, peppers, tobacco and other Solanaceae family of crops	18
Application rates between 20.1 to 24 fluid ounces Brake F2 per acre	



Cotton	0
Peanut	10
Soybean, small grains such as wheat, barley, and rye, rice, and corn	15
Alfalfa, sunflower, sweet potato, sorghum, or tomatoes, peppers, tobacco and other Solanaceae family of crops	18

- In sand and loamy sand soil with organic matter <2%, or if tillage is performed prior to planting (any soil texture), add 4 months to rotational crop restrictions for soybean, small grains (such as wheat, barley, and rye), corn, sorghum, tobacco, and for any crop not specifically listed.
- If this product is used for two consecutive years in the same field, only plant cotton or peanut the following year in those fields, or sweet potato if the application rate was 20 ounces or less.
- In the event of poor cotton stand due to adverse weather or other circumstances, a field treated with this product may be replanted with cotton following light tillage or planted in the undisturbed soil. During replanting, minimum tillage is recommended to preserve the herbicide barrier for effective weed control. Do not apply a second application of this product or other fomesafen containing products as crop injury or illegal residues may occur in harvested crops. If tank-mix combinations were initially used, refer to product labels for any additional replanting instruction.
- Follow the crop rotation intervals specified in Table 1. For any crop not specifically listed in Table 1, do not replant for 18 months in fields treated with this product, as crop injury may occur.
- Over-application may result in crop injury or injury to rotational crops. Avoid overlapping spray swaths, as injury may occur to rotational crops.
- Do not graze rotated small grain crops or harvest forage or straw for livestock.

### **MIXING AND APPLICATION DIRECTIONS**

**Apply this product evenly and uniformly to the soil surface with a minimum spray solution of 10 gallons per acre.** Fill spray tank partially full with water (e.g. ½ full). Start agitation. Add correct quantity of this product. **Maintain continuous agitation while filling spray tank to required volume and during application. Do not stop agitation prior to or during this product application.** Nozzle selection should meet manufacturer's volume and pressure recommendations for preplant surface or preemergence applications. Uniform spray coverage is essential for good efficacy.

### **Tank Mix Directions**

This product may be tank mixed with other herbicides to enhance efficacy and plant selectivity provided that the labels for this product and the tank-mix partner do not prohibit such mixing. When tank mixing, read and follow the labeled precautionary statements, directions for use, weeds controlled, and other restrictions for each tank mix product. Use in accordance with the most restrictive label limitations and precautions of the products used in the tank-mix. Do not exceed any labeled rate. **Due to the many herbicide formulations available and to ensure compatibility, ALWAYS conduct a jar test before field application of any tank mix combination. Do not tank mix this product with herbicides containing pendamethalin (e.g. Prowl®) or trifluralin (e.g. Treflan®).** Do not allow tank mixed material to sit in the spray tank for extended periods of time prior to application (e.g. overnight).

**NOTE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be at the exclusive risk of the user, applicator and/or application adviser, to the extent allowed by applicable law.

**Spray Additives and Fertilizers: No adjuvants are needed for application of this product.** However, if this product is part of a tank-mix that includes a burndown herbicide or combination, follow label use directions for the adjuvant/surfactant and other herbicides used in the tank-mix. Conduct a jar test before mixing this product with any other product to ensure compatibility. **Do not mix this product with spray adjuvants or drift control agents containing polyacrylamide, or fertilizers containing sulfur.**

**Soil Preparation – Start Clean**

**This product will not control established weeds.** It is important to **start clean** by controlling all existing weeds prior to and/or during this product’s application. Depending on the type of tillage, established weeds could be covered with soil and shielded from exposure to the burndown herbicide. Therefore, for best results, apply burndown herbicides 24 to 96 hours prior to cultivation in conventional and strip tillage systems. Depending on environmental conditions, tillage can also disturb the seed bank and cause more weeds to germinate. Therefore, it is recommended to tank-mix this product with a burndown herbicide, such as Gramoxone® (active ingredient paraquat labeled for use in cotton), at the time of planting. It is the pesticide user’s responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**APPLICATION RATES**

Apply this product as a preplant or preemergence application prior to cotton emergence. Refer to Table 2 for specific rates by soil type. Use the lower rates in soils where weed pressure is low and the higher rates in soils where weed pressure is heavy. Application of this product to soils with high organic matter and/or high clay content may require higher rates than soil with low organic matter and/or low clay content. Refer above to the *APPLICATION METHODS* section of this label for additional use directions.

**Table 2. Application rates for Brake F2.**

<b>Soil Texture</b>	<b>Rate in fluid ounces/acre<sup>2</sup> (rate range)</b>	<b>Application Method</b>
<b>Coarse</b> (sand, sandy loam, loamy sand, loam, or sandy clay loam)	16 fluid ounces	Preemergence; or preplant up to 14 days prior to planting
<b>Medium</b> (silt loam, silt, silty clay loam <sup>1</sup> ) and <b>Fine</b> (clay loam, silty clay, clay)	16 to 24 fluid ounces	Preemergence at rates of 16 fluid ounces/acre; or preplant up to 14 days prior to planting <sup>4</sup>
<b>All Soil Types</b>	8 to 16 fluid ounces <sup>3</sup>	Preemergence

<sup>1</sup>Silty clay loam is a transitional soil and may be classified as medium or fine.

<sup>2</sup> Do not apply more than 24 fluid ounces per acre.

<sup>3</sup> Longevity of control is dependent on many factors such as soil type, moisture, and application rate. Lower rates will reduce length of preemergent weed control. Rates less than 16 ounces are only recommended as preemergent applications in Enlist®, Xtendflex®, and Liberty Link® trait based systems. When using

rates less than 16 ounces per acre, additional fomesafen may be added to the tank mix depending on weed control objectives. For example, at a rate of 8 ounces/acre of this product, up to 0.063 lb of fomesafen (as active ingredient) may be added to the tank mix; at 10 ounces/acre of this product, up to 0.047 lb of fomesafen may be added to the tank mix; and at 12 ounces/acre of this product, up to an 0.031 lb of fomesafen may be added to the tank mix.

<sup>4</sup>Refer to section below on *Preplant Surface Applications*.

### **Band Application**

This product may be applied as a banded application. When this product is applied on a band, calculate the amount of herbicide and water volume needed for band treatment by the following formulas:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast rate}}{\text{per acre}} = \text{Band herbicide rate per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast volume}}{\text{per acre}} = \text{Band water volume per acre}$$

Band width must not exceed 50% (one-half) the cotton row width. Best coverage is obtained with a minimum of two nozzles, one directed to each side of the planted row. Application with a single nozzle directed over the top of the row is suitable for preemergence applications. Cultivation of untreated areas may be needed following band applications.

### **RESISTANCE MANAGEMENT**

For resistance management, please note that Brake F2 contains both a Group 12 (Fluridone) and a Group 14 (fomesafen) herbicide. Any weed population may contain plants naturally resistant to Group 12 and/or Group 14 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of Brake F2 or other Group 12 or 14 herbicides within a growing season or among growing seasons with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and that considers mechanical control methods, cultural (e.g., timing to favor the desirable plants and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a

mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.

- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your sales representative, pest control advisors, or local extension specialist for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of plants and weed biotypes.

### **APPLICATION METHODS**

Germinating weeds can be controlled by soil residual activity from either preplant surface or preemergence applications of this product in no till, strip or conventional tillage situations.

#### **Preemergence Applications**

Apply this product as a preemergence treatment to all soil types at a rate of 8 to 16 fluid ounces/acre. Lower rates will reduce length of preemergent weed control. When using rates less than 16 ounces per acre, additional fomesafen may be added to the tank mix depending on weed control objectives. For example, at a rate of 8 ounces/acre of this product, up to 0.063 lb of fomesafen (as active ingredient) may be added to the tank mix; at 10 ounces/acre of this product, up to 0.047 lb of fomesafen may be added to the tank mix; and at 12 ounces/acre of this product, up to 0.031 lb of fomesafen may be added to the tank mix. Do not apply more than a total of 0.375 lb ai/A fomesafen per year. For best results, apply behind the planter (i.e. at planting) or within 36 hours after planting. Moisture is necessary to activate this product in soil for residual weed control. Dry weather following applications of this product may reduce effectiveness. For improved weed control, a minimum of 0.5 inches of rain or overhead irrigation is recommended following application.

#### **Preplant Surface Applications**

This product may be applied as preplant surface application in coarse, medium or fine textured soils up to 14 days before planting. Apply after the last tillage operation is completed. For preplant surface applications in medium or fine-textured soils at rates greater than 16 fluid ounces/acre, a minimum of 0.5 inch of rainfall or overhead irrigation must occur before planting cotton; cotton must be planted at least 0.75 inches in depth; and the seedbed must not be disturbed or re-worked following application.

#### **Controlling Early Weed Escapes**

**DO NOT use this product as a stand-alone herbicide. This product must be used as part of a comprehensive weed control program.** Weeds may escape control prior to this product being activated by moisture. **A postemergent application 12 to 16 days after planting of a non-selective post-herbicide, in combination with a residual herbicide (e.g. Warrant® or Dual Magnum®), IS REQUIRED to control early germinating weeds and to overlap residual herbicides.** The purpose of overlapping residual herbicides during postemergent applications is to eliminate all weed escapes for a zero-tolerance approach. Aggressive scouting is recommended and, when necessary, use secondary postemergent applications including a residual herbicide. Depending on the frequency of weed escapes, standard post-directed or layby herbicide applications are also recommended, when necessary, in addition to other cultural practices. **Only use herbicides that are compatible with the cotton variety being grown.** If uncertain, contact a local extension agent or crop consultant to verify herbicide tolerance for different cotton varieties.

**The Brake F2 Preemergence Four-Step System: *Start Weed Free. Stay Weed Free.***

1. Pre-plant burndown and/or cultivate;
2. Apply this product at-plant or within 36 hours of planting with a burndown herbicide;
3. Postemergent application of a herbicide containing glyphosate, glufosinate, or other post-emergent herbicide that is effective at controlling the target weed and compatible with the cotton variety, combined with a residual herbicide 12-16 days after planting; and
4. Scout and utilize postemergent and layby applications with overlapping residuals as needed (See specific directions for Roundup Ready® varieties below)

**Roundup Ready (glyphosate tolerant) Cotton Varieties**

When planting varieties of cotton that are tolerant to Roundup® (glyphosate), any escape of glyphosate resistant weeds will not be controlled with a postemergent application of glyphosate. **Thus, the use of overlapping residual herbicides is required to maintain adequate control of glyphosate resistant weeds in such systems and to minimize the potential for weed seeds to germinate and become established.** For best results, follow a comprehensive weed management program with timely applications of overlapping residual herbicides, such as the integrated herbicide program in Table 3. POST 1 – Application containing glyphosate and a residual herbicide 12-16 days after planting. POST 2 - Second postemergence application containing an additional residual herbicide 12-16 days after the POST 1 application. LAYBY – Application containing a residual herbicide 14 to 18 days after the POST 2 application. Additional applications may be necessary depending on environmental conditions and weed pressure. The timely application of overlapping residuals in the post-emergent program is critical for a zero-tolerance weed strategy in Roundup Ready systems and to reduce the chances of glyphosate resistant weeds from becoming established. In areas of high weed pressure and under conditions that favor weed emergence, apply postemergent applications following the shorter intervals (e.g. 12 days).

<b>Table 3. Example of integrated herbicide program for roundup ready cotton featuring Brake F2</b>				
<b>PRE Plant</b>	<b>PRE Emergence</b>	<b>POSTEMERGENCE<sup>1</sup></b>		
<b>PPL</b>	<b>PRE</b>	<b>POST 1 (12 -16 days after PRE)</b>	<b>POST 2 (12-16 days after POST 1)</b>	<b>LAYBY (14-18 days after POST 2)</b>
<b>Start Clean</b> (burndown and/or tillage)	<b>Brake F2</b> 16 fl oz/A + burndown	Glyphosate + Staple® LX	Glyphosate + Warrant® or Dual Magnum®	Diuron + MSMA

<sup>1</sup> It is the pesticide user’s responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**SPRAY DRIFT MANAGEMENT**

**Ground Boom Applications:**

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).

- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.”

## **SPRAY DRIFT ADVISORIES**

The applicator is responsible for avoiding off-site spray drift. Be aware of nearby non-target sites and environmental conditions.

### **Importance of Droplet Size**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### ***Controlling Droplet Size – Ground Boom***

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### **Boom Height – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **Shielded Sprayers**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **Temperature and Humidity**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **Temperature Inversions**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

**Wind**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

**SPRAY DRIFT MANAGEMENT**

**Boom-less Ground Applications**

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

**Handheld Technology Applications**

Take precautions to minimize spray drift.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Keep from freezing. Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**Pesticide Disposal:** Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

**Container Handling**

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Warranty Disclaimer:** SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

**Misuse:** Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall SePRO Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

For additional important labeling information regarding SePRO Corporation's Terms and Conditions of Use, Inherent Risks of Use and Limitation of Remedies, please visit <http://seprolabels.com/terms> or scan the image below.



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[Base label; all containers]



FLURIDONE	GROUP	12	HERBICIDE
FOMESAFEN	GROUP	14	HERBICIDE

# Brake® F2

HERBICIDE

**Preemergent herbicide for use in cotton to control pigweed**

## Active Ingredients

fluridone:

1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1H)-pyridinone ..... 17.26%

sodium salt of fomesafen:

5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-nitrobenzamide... 10.81%

**Other Ingredients** ..... 71.93%

**TOTAL** ..... 100.00%

Equivalent to 1.6 pounds fluridone and 1.0 pound fomesafen active ingredient per gallon.

## 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.)

**Danger. Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapors or spray mist. 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.**

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>

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

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

**SHAKE WELL BEFORE USING**

**Refer to inside of label booklet for additional Precautionary Information, Storage and Disposal, and Directions for Use.**

**NOTICE:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer* and *Misuse* statements inside label booklet. If terms are unacceptable, return at once, unopened.**

**Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.**

EPA Reg. No. 67690-73

EPA Est. No. \_\_\_\_\_

FPL20230305

[SPC]-\_\_\_\_\_

**SePRO Corporation • 11550 North Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.**

**Net contents \_\_\_\_\_ (Non-refillable container)**

[Text accessed through the weblink / QR code. This is NOT part of the printed label]

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## TERMS AND CONDITIONS OF USE

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If terms of the *Warranty Disclaimer* and *Misuse* provisions on the product label as well as the *Inherent Risks of Use* and *Limitation of Remedies* statements below are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Misuse*, *Inherent Risks of Use*, and *Limitation of Remedies*.

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## INHERENT RISKS OF USE

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including use under conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), the presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the buyer and/or user of the product.

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## LIMITATION OF REMEDIES

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer* and *Misuse* provisions on the product label and these *Terms and Conditions of Use*, *Inherent Risks of Use* and *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* and *Misuse* provisions on the product label and these *Terms and Conditions of Use*, *Inherent Risks of Use* and *Limitation of Remedies* in any manner.