

PM 25 9779-311

File 10/11



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

JAN 14 1994

Glenda Haage  
RIVERSIDE/TERRA CORP.  
600 Fourth Street  
Sioux City, IA 51101

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 07/27/93 in Response to PR Notice 93-7  
EPA Reg. No. 9779-311  
RIVERSIDE FLUOMETURON 80DF

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with SoyCanola Ink on paper that  
contains at least 50% recycled fiber

2011

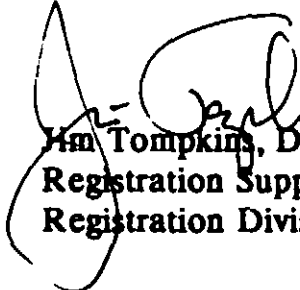
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

3941

ACCEPTED  
with COMMENTS  
by EPA Letter Dated

JAN 14 1994

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

9229-311

R®

**FLUOMETURON 80DF**

For weed control in cotton

**ACTIVE INGREDIENT**

Fluometuron [1,1-dimethyl-3-(alpha, alpha, alpha,-  
trifler-m-tolyl) urea]..... 80.0%

**INERT INGREDIENTS**..... 20.0%

Total 100.0%

~~STOP READ LABEL BEFORE USING.~~  
~~KEEP OUT OF REACH OF CHILDREN~~

**WARNING/AVISO**

~~PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la  
etiqueta le haya sido explicada ampliamente.~~

~~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.)~~

**STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Immediately flush with large amounts of water. Get medical attention if  
irritation persists.

**IF ON SKIN:** Wash affected skin areas thoroughly with soap and water. Get medical  
attention if irritation persists.

**IF SWALLOWED:** Drink water and induce vomiting by placing fingers at back of throat.  
Call a physician, hospital, or Poison Control Center immediately.

**IF INHALED:** Move subject to fresh air. Get medical attention.

**NOTE TO PHYSICIAN:** If the patient has ingested fluometuron, induce emesis or lavage  
stomach. Administer a saline laxative and supportive treatment.

See additional PRECAUTIONARY STATEMENTS on side panel.

EPA Reg. No. 9779-311

EPA Est. No. 9779-AR-13

Manufactured For  
**RIVERSIDE/TERRA CORPORATION**  
Terra Centre, 600 Fourth Street, Sioux City, Iowa 51101  
Riverside Serves Agriculture. Agriculture Serves Everyone.

**NET CONTENTS**  
5 LBS.

**BEST AVAILABLE COPY**

PRECAUTIONARY STATEMENTS  
WARNING  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes eye irritation. ~~Wear goggles, face shield or safety glasses.~~ Do not get in eyes, or on skin ~~or on clothing.~~ Harmful if swallowed, inhaled or absorbed through the skin. ~~Wear protective clothing as this product may cause skin rash after repeated exposure.~~ Avoid breathing vapors or spray mist. ~~Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

~~Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof 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, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 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 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**

Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

Do not apply this product through any type of irrigation system.

~~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.~~

**BEST AVAILABLE COPY**

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**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), and restricted entry interval. 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 that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, shoes plus socks and protective eyewear.

**STORAGE AND DISPOSAL**

**DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.**

**STORAGE**

Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage or leakage, scrape up spillage. If spillage is not suitable for use, dispose of in accordance with information given under DISPOSAL. Repackage and relabel useable product in a sound container. In case of fire or other emergency, report at once by toll free telephone to 800-424-9300.

**DISPOSAL**

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state a local authorities, by burning. If burned, stay out of smoke.

**BEST AVAILABLE COPY**

**GENERAL INFORMATION**

FLUOMETURON 80DF is effective for annual grass and annual broadleaf weed control in cotton. FLUOMETURON 80DF applied according to label directions will control the following annual weeds:

**ANNUAL BROADLEAF WEEDS**

- |                       |                        |
|-----------------------|------------------------|
| Spurred anoda         | Prickly sida (teaweed) |
| Cocklebur             | Purslane               |
| Florida pusley        | Ragweed                |
| Groundcherry (Wright) | Sesbania               |
| Jimsonweed            | Sicklepod              |
| Lambsquarters         | Smartweed              |
| Morningglory          | Tumbleweed             |
| Pigweed               |                        |

**ANNUAL GRASS WEEDS**

- |               |                          |
|---------------|--------------------------|
| Barnyardgrass | Foxtail                  |
| Crabgrass     | Goosegrass               |
| Crowfootgrass | Ryegrass                 |
| Fall panicum  | Signalgrass (Brachiaria) |

Established perennial weeds such as Johnsongrass from rhizomes are not controlled.

**APPLICATION PROCEDURES**

**BAND TREATMENT:** For band applications, the following formula may be used to calculate the amount of FLUOMETURON 80DF required:

$$\frac{\text{band width (inches)}}{\text{row width (inches)}} \times \text{broadcast rate per acre} = \text{amount needed per acre}$$

**EQUIPMENT:** Thoroughly clean sprayer prior to use. Do not use a sprayer contaminated with 2,4-D or other materials as crop damage or sprayer clogging may result.

Use properly calibrated conventional spray equipment that will apply spray uniformly and has hydraulic or mechanical agitation, except in California or Arizona where only mechanical agitators are recommended. Screens in nozzles, 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. Avoid leaving spray mixture in tank without constant agitation. If bypass agitation is used, it should terminate at the bottom of the tank to minimize foaming. Wash sprayer thoroughly with clean water immediately after use.

Apply in a minimum of 10 gallons per acre for preplant incorporated or preemergence applications, or apply in a minimum of 20 gallons per acre for postemergence application.

**MIXING INSTRUCTIONS:** Fill spray tank 1/2 full with water or nitrogen solution. Start agitation. Pour FLUOMETURON 80DF directly from the container into the partially filled spray tank. If FLUOMETURON 80DF is to be tank mixed with another herbicide, add that product after the FLUOMETURON 80DF is thoroughly mixed. Add the rest of the water or nitrogen solution. Agitate during mixing and application to maintain uniform suspension.

To determine compatibility, add two teaspoons of FLUOMETURON 80DF to one pint of nitrogen solution, equivalent to 2.5 pounds in 25 gallons. If using other application rates, adjust compatibility test rates proportionally. Stir or shake thoroughly. Let stand 5 minutes. If it remains mixed or can be remixed readily, the mixture is compatible. If FLUOMETURON 80DF settles out when mixed with a nitrogen solution, a compatibility agent at 1 to 3 pints per 100 gallons fertilizer may improve compatibility. Add 1/8 to 3/8 teaspoon of the compatibility agent to determine effectiveness.

**Cotton**

FLUOMETURON 80DF may be applied as a preemergence treatment to the surface of the soil, or lightly incorporated immediately after planting, or as a directed, semidirected, or over-the-top postemergence application. For preemergence treatment only, FLUOMETURON 80DF may be tank-mixed with most liquid nitrogen fertilizers. FLUOMETURON 80DF may be combined with other herbicides in cotton as directed in the section, "Combinations."

FLUOMETURON 80DF is most effective when used as follows:

- 1st Application: Preemergence broadcast. See Preemergence Treatment below.
- 2nd Application: Postemergence, directed, semidirected or over-the-top when cotton is 3-6 inches high. See Postemergence Treatment below.
- 3rd Application: If needed, postemergence, directed, or semidirected, at layby (last normal cultivation), using no more than 1.25 pounds per acre.

80411

### Preemergence Treatment

Apply FLUOMETURON 80DF at a rate of 1.25 to 2.5 pounds per acre. On light silt and sandy soils low in organic matter, use the lower rate.

FLUOMETURON 80DF may be applied to the surface of the soil or lightly incorporated into the soil after planting cotton.

### Preplant Incorporated Use (Arizona, California, and New Mexico)

FLUOMETURON 80DF may be applied preplant as a broadcast spray at 2.0 pounds per acre after the beds for preplant irrigation have been formed. Apply before the beds are dragged off (using a bed shaper set to remove 1 to 2 inches from beds) in preparation for planting. Furrow irrigation should precede the application and planting should follow as soon as possible. Plant into untreated soil after drag-off and return treated soil to the beds when furrows are reformed. Do not allow furrow irrigation water to pond over the beds.

### Postemergence Treatments

FLUOMETURON 80DF may be applied postemergence to cotton but preemergence to weeds, or postemergence to both cotton and weeds. FLUOMETURON 80DF should be applied at rates of 1.25 to 2.5 pounds per acre. Apply as a directed, semidirected, or over-the-top spray. FLUOMETURON 80DF may be applied to cotton plants at any stage of growth from 3 inches high to layby. Use the higher rate when applying postemergence to weeds; weeds should be 2 inches high or less. Use of a surfactant that is approved by FDA for use on food and feed crops and is compatible with FLUOMETURON 80DF when applied to cotton may enhance the postemergence herbicidal activity of FLUOMETURON 80DF. The surfactant rate should not exceed 0.5% of the carrier volume (1 pint per 25 gallons of water).

**Application Precautions:** Rainfall that is sufficient to germinate seeds or for growing crops is adequate to activate the herbicidal activity of FLUOMETURON 80DF. Where dry weather conditions prevail, the herbicidal activity of FLUOMETURON 80DF may be delayed or reduced. Cultivate if necessary.

Do not make more than three applications of FLUOMETURON 80DF to the same crops or field in any one year. Do not plant crops other than cotton or sugarcane within 6 months of the last application of FLUOMETURON 80DF or injury may result.

The use of FLUOMETURON 80DF as a preemergence or early postemergence application, following the use of a systemic insecticide at planting, may result in injury to cotton.

**West Texas only:** Do not use FLUOMETURON 80DF on sandy, loamy sand, or fine sandy loam soils. Do not use FLUOMETURON 80DF on cotton planted in furrows.



90/11

Arkansas, Louisiana, and Mississippi only: Use 1 pound of FLUOMETURON 80DF per acre on sandy loam soils low in organic matter.

Arizona, California, and New Mexico only: Cotton, corn, and grain sorghum can be planted the next spring. Do not plant treated areas to other crops until one year after last application. Do not use on sandy or coarse-textured soil of less than 1% organic matter.

Do not apply within 60 days of harvest.

Do not feed foliage from cotton plants or gin trash to livestock.

Combinations for use on Cotton

Dual® 8E: Use in a tank mixture with FLUOMETURON 80DF preemergence in cotton for control of all weeds as listed on both labels. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crop emerge, using the appropriate rates from the table below. Note: Incompatibility may occur, add Activate Plus at 0.5% volume/volume spray (4 pints/100 gal.) to help overcome this condition.

FLUOMETURON 80DF + Dual 8E - Cotton (AR, LA, MS, Eastern OK, TN, Bootheel of MO, and Gulf Coast, Rio Grand Valley and Eastern TX)

Soil texture	Broadcast Rates Per Acre	
	FLUOMETURON 80DF	Dual 8E
Sand, loamy sand	DO NOT USE	
Sandy loam*	1.25 pounds	1.25-1.5 pints
Loam, silt, silt loam	1.25-2 pounds	1.5-2 pints
Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	2-2.5 pounds	2 pints

\*Use on sandy loam soils only in eastern OK and Gulf Coast, Rio Grande Valley, and eastern TX.

Precautions: (1) Do not apply on sand or loamy sand soils or in areas where water is likely to "pond" over the bed, or crop injury may occur. (2) Do not apply broadcast to

100/11

furrow-planted cotton. (3) The use of FLUOMETURON 80DF following the use of a systemic insecticide at planting may result in crop injury. (4) Do not use on Taloka silt loam or crop injury may occur.

Refer to the Dual 8E label for further instructions, precautions, and limitations.

Note: Do not feed treated forage or gin trash to livestock or graze treated areas.

Rotational Crops: Refer to the crop rotation instructions for FLUOMETURON 80DF alone on this label and for Dual 8E alone on the Dual 8E label.

Trifluralin 4EC: Use in a tank mixture with FLUOMETURON 80DF (all areas except Arizona and California) or before an overlay with FLUOMETURON 80DF in cotton for control of all weeds listed on both labels.

For the tank mixture, follow soil preparation and incorporation procedures for Trifluralin 4EC. Apply FLUOMETURON 80DF + Trifluralin 4EC tank mix rates specified below in a minimum of 15 gallons of water per acre.

FLUOMETURON 80DF + Trifluralin 4EC Tank Mixture (except Arizona and California).

Soil texture	Broadcast Rates Per Acre	
	FLUOMETURON 80DF	Trifluralin 4EC
Sand, loamy sand, sandy loam	1.25 pounds	1 pint
Loam, silty clay loam*, silt loam, silt, sandy clay loam*	2.0 pounds	1.5 pints
Clay, clay loam, silty clay loam*, silty clay, sandy clay, sandy clay loam*	2.5 pounds	2 pints

\*Silty clay loam and sandy clay loam are transitional soils. If these soils are predominately sand or silt, they are usually classified as medium-textured soils. If predominately clay, they are classified as fine-textured soils.

For the overlay, apply FLUOMETURON 80DF as a preemergence soil surface treatment as recommended on this label at 1.25 to 2.5 pounds per acre after a preplant soil incorporated treatment of trifluralin. Apply Trifluralin 4EC as recommended on the label at 1 to 2.5 pints per acre.

Do not use the tank mix in Arizona and California. Do not apply the tank mix of FLUOMETURON 80DF + Trifluralin 4EC in liquid fertilizer. Refer to the Trifluralin 4EC label for directions, precautions, and limitations for use of that product, as well as the directions, precautions, and limitations on this FLUOMETURON 80DF label.

**Prowl®:** Apply FLUOMETURON 80DF as a preemergence surface treatment as recommended on this label at 1.25 to 2.5 pounds per acre after a preplant soil incorporated treatment of Prowl for control of all weeds listed on both labels. Apply Prowl as recommended on its label at 1-3 pints per acre. Refer to the Prowl label for directions, precautions, and limitations for use of that product.

**Zorial® Rapid 80:** Apply FLUOMETURON 80DF according to directions on this label as a preemergence soil surface treatment following a preplant incorporated application of Zorial Rapid 80 or tank mix with Zorial Rapid 80 and apply as a preemergence treatment. Refer to the Zorial Rapid 80 label for directions for use, precautions, and limitations for use of that product.

**DSMA or MSMA:** FLUOMETURON 80DF may be tank-mixed with DSMA or MSMA and applied as a directed spray to cotton from three inches high to first bloom. Use the broadcast rate of 1.25 to 2.5 pounds per acre and the necessary amount of DSMA or MSMA plus 0.5% (1 pint per 25 gallons) of a surfactant that is approved by FDA for use on food and feed crops and is compatible with FLUOMETURON 80DF + DSMA or FLUOMETURON 80DF + MSMA when applied to cotton. When using this mixture, do not allow spray to contact cotton foliage. Do not graze treated areas or feed treated forage or gin trash to livestock. Adhere strictly to the dosage, precautions and limitations of the labels of the products.

Dual® trademark of Ciba-Geigy for metolachlor  
Prowl® trademark of American Cyanamid for pendimethalin  
Zorial® Rapid 80 trademark of Sandoz Ltd.

**NOTICE:** Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller and Buyer assumes the risk of any such use.