

1812-323

7/29/2003

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

JUL 29 2003

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Carol Patterson  
Griffin L.L.C.  
P.O. Box 1847  
Valdosta, GA 31603-1847

Dear Ms. Patterson:

Subject: Meturon 80 DF  
EPA Registration Number 1812-323  
Application Dated July 2, 2003

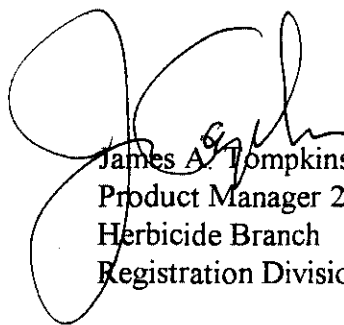
The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

1. Change the order of the PRECAUTIONARY STATEMENTS to match the order of the FIRST AID statements. Both should be ordered so the most severe routes of exposure are listed first.
2. Add SPRAY DRIFT MANAGEMENT section under Aerial Applications section under APPLICATION INSTRUCTIONS. See attached text.
3. Add a heading called "Entry Restrictions" under DIRECTIONS FOR USE that states "Keep children and domestic animals off treated areas until dry."
4. Fix misspelling under APPLICATION INSTRUCTIONS so sentence reads "Continue agitating WHILE adding other products in the following order:"
5. Revise "Environmental Hazard Statement" to state "Do not contaminate WATER when cleaning equipment or disposing of equipment washwater."
6. Under the section "Personal Protective Equipment" change "waterproof gloves" to "chemical resistant gloves made out of any waterproof material such as \_\_\_\_\_ or \_\_\_\_\_ or \_\_\_\_\_." Fill in appropriate glove material in the indicated blank.
7. Also make the above change from 6 under the "Agricultural Use Requirements" Box for early entry PPE.

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Submit three (3) copies of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Tompkins', is written over the printed name and title.

James A. Tompkins, haj  
Product Manager 25  
Herbicide Branch  
Registration Division (7505C)

3 8 8

**METURON 80 DF  
WATER-DISPERSIBLE GRANULE**

**FOR PREEMERGENCE AND POSTEMERGENCE WEED CONTROL IN COTTON**

**ACTIVE INGREDIENT:**

Fluometuron: 1,1-dimethyl-3-(a,a,a-trifluoro-m-tolyl)urea .....80%

**INERT INGREDIENTS:** .....20%

**TOTAL** .....100%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call 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 do so by the poison control center or doctor.</li><li>• Do not give anything by mouth 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 – 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>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eyes open and rinse slowly and gently with water for 15-20 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>NOTE TO PHYSICIAN:</b> There is no specific antidote for fluometuron. Induce emesis and lavage stomach. Give saline laxative and supportive therapy.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>For medical emergencies involving this product, call toll free 1-888-324-7598.</b>	
See Label for Additional Precautions and Directions for Use	

GRIFFIN LLC  
VALDOSTA, GEORGIA 31601

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**

JUL 29 2003

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

1812-323

EPA Reg. No. 1812-323

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)  
CAUTION**

Causes eye irritation. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**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.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate when disposing of equipment washwaters. Apply this product only as specified on this label.

**DIRECTIONS FOR USE**

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

**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 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 instruction and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. 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 area during the restricted entry interval (REI) of 24 hours.

Exception: If product is soil-injected or soil-incorporated, the worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry into 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

### STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage and disposal. Do not contaminate water when disposing of equipment wash waters. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate if allowed by state and local authorities. If burned, stay out of smoke, Paper and Plastic Bags - Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### GENERAL INFORMATION

Meturon 80DF effectively controls selected annual grass and annual broadleaf weeds with no injury to cotton when used in accordance with label directions. Meturon 80DF will provide effective control of the following weeds:

#### ANNUAL GRASSES

Barnyardgrass	Fall Panicum
Crowfootgrass	Ryegrass
Goosegrass	Crabgrass
Brachiaria	Foxtail

#### BROADLEAF WEEDS

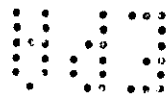
Buttonweed	Purslane
Goathead	Sicklepod
Pigweed	Tumbleweed
Sesbania	Prickly Sida (Ironweed or Teawood)
Groundcherry (Wright)	Florida Pusley
Cocklebur	Morningglory
Lambsquarters	Ragweed
	Smartweed

Meturon 80DF is not effective for control of perennial weeds.

### APPLICATION INSTRUCTIONS

#### Mixing

Add two-thirds of the required amount of water to the spray tank. When tank-mixing with other products, Meturon 80DF should be the first product added to the spray tank. With the agitation on add Meturon 80DF to the tank. Allow at least five minutes for the product to disperse completely before adding other ingredients. Continue agitating while adding other products in the following order:



- (1) dry flowables,
- (2) wettable powders,
- (3) liquid flowables,
- (4) emulsifiable concentrates,
- (5) surfactants or compatibility agents.

Add remainder of water after addition of products is complete.

When tank mixing with other products, check for compatibility using the following procedure. Fill a clean, wide-mouth jar with the intended water or fertilizer solution. Add three tablespoons of product to the pint jar. Shake well, then add the other intended ingredients in the order given above, shaking well after each addition. The final mixture should be uniform and smooth with no evidence of coagulation. If incompatibility is evident, begin test again with a compatibility agent added first. Six drops is equivalent to four ounces/100 gallons. If this does not smooth the mixture, try higher concentration or other compatibility agents. Dilution of the products with equal parts of water before adding to the spray tank may improve the mixture.

On cotton where a nitrogen solution may be used as a carrier, Meturon 80DF must be thoroughly slurried in water before adding to nitrogen solution. Before tank-mixing with nitrogen solution, check for compatibility by using the following procedure. Disperse Meturon 80DF into water at a ratio of one tablespoon of Meturon 80DF to four tablespoons of water. Add two tablespoons of resulting slurry to 1 pint of the nitrogen solution, agitate and allow to stand undisturbed for five minutes. The products are compatible when no lumping, curdling or gelation exist, and when any separation can be readily remixed. If Meturon 80DF should settle out when mixed with the nitrogen solution, a compatibility agent may be used to improve suspensibility, as noted above.

To maintain a uniform spray mixture, use bypass or mechanical agitation in the test tank. To reduce foaming, bypass agitation should end in the bottom of the tank. The spray mixture should never be left in the tank without constant agitation. Spray equipment must always be thoroughly cleaned before applying Meturon 80DF as residues of other pesticides can alter the results from Meturon 80DF even to the point of causing serious crop injury.

### Equipment

Uniform distribution is essential for most effective weed control, fan type nozzles are generally most effective for herbicide application. Uniform distribution may also be influenced by spray pressure and volume, for ground application use no less than 10 gpa for preplant incorporated and preemergence treatment; and 20 gpa for postemergence.

For band applications use rates of Meturon 80DF and carrier proportional to broadcast. Dividing row width by bandwidth and multiplying by the rate per acre broadcast will give the amount of Meturon 80DF needed on the band.

<u>band width in inches</u>		rate/acre		amount needed
row width in inches	x	broadcast	=	per acre of field

### Aerial Application

Apply Meturon 80DF in a minimum of 5 gallons of water per acre. Avoid applications under conditions where uniform coverage cannot be obtained or where extensive spray drift may occur. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.



Crop	Timing / Method	Rate / Acre	Height	Use Instructions
Cotton				Meturon 80DF provides effective weed control when applied preemergence or postemergence to cotton and weeds. In some areas, a very light incorporation immediately following application to the soil may improve weed control. Postemergence Meturon 80DF may be applied as directed, semi-directed or over-the-top spray to cotton. Tank mixture with most liquid nitrogen solutions can be done with preemergence application only. To be most effective apply Meturon 80DF in a program using preemergence, early postemergence (cotton 3 to 6 inches tall), and late postemergence (lay-by) applications.
				Cotton may be planted in soil previously treated with Meturon 80DF. Meturon 80DF may be applied either preplant or preemergence, but not both.
	Preplant	1.25 to 2.5 lbs		On light soil and sandy soil, low in organic matter, use the lower rate. Apply Meturon 80DF to the surface of the soil. If tank mixed follow precautions and label recommendations for use rates of product to the tank mixed
	Preplant-Incorporation (Arizona & New Mexico Only)	2 lbs.		After beds are prepared for preplant irrigation, apply Meturon 80DF broadcast. Application should follow furrow irrigation with planting as soon as possible after irrigation. Treatment must be made before beds are dragged off for planting. A bed shaper should be used to remove 1 to 2 inches from the beds after treatment. Irrigation water should not be allowed to puddle or pond over beds.
	Preemergence Treatment	1.25 to 2.5 lbs		On light silt and sandy soils, low in organic matter, use the lower rate. Meturon 80DF may be applied to the surface of the soil, or lightly incorporated into the soil, after planting cotton.
	Postemergence Treatment	1.25 to 2.5 lbs.	3 inches to lay-by	Meturon 80DF may be applied postemergence to cotton and preemergence or postemergence to weeds. Application can be directed, semi-directed or topical to cotton. The higher rate should be used when weeds have emerged. The use of a surfactant at a rate not to exceed 0.5% of spray volume or 1 pint per 25 gallons of water may increase activity on weeds.
		1.25to 2.5 lbs.		<u>Trilin® or other trifluralins</u> Meturon 80DF may be applied preemergence following a preplant incorporated application of Trilin or other trifluralins. Follow label recommendations for use rates of Trilin or other trifluralins and precautions.
		1.25to 2.5 lbs.		<u>Prowl®</u> Meturon 80DF may be applied preemergence following a preplant incorporated a application of Prowl. Follow label recommendations for use rates of Prowl and precautions
		1.25to 2.5 lbs.		<u>Zorial Rapid 80®</u> Meturon 80DF may be applied preemergence following a preplant incorporated application of Zorial Rapid 80 or pre-emergence in combination with Zorial Rapid 80. Follow label recommendations for use rates of Zorial Rapid 80 and precautions.
		1.25to 2.5 lbs.	3 inches to bloom	<u>DSMA/MSMA</u> Meturon 80DF may be tank mixed with DSMA OR MSMA and applied as a postemergence directed spray to cotton. Follow label recommendation for use rates of DSMA OR MSMA and precautions. Addition of a surfactant of 0.5% of spray volume ( 1 pint per 25 gallons) will enhance performance. This mixture should be applied in such a manner as to avoid contact of cotton foliage to avoid injury. Do not graze treated areas or feed treated forage or gin trash to livestock.

## PRECAUTIONS

The use of this product on light silt and sandy soils low in organic matter may result in serious crop injury or stand loss. Hillsides or slightly eroded areas are particularly subject to injury.

The herbicidal activity of Meturon 80DF may be lessened under dry conditions; however, rainfall sufficient to germinate seeds and grow the crop will usually activate Meturon 80DF. Interaction between Meturon 80DF when applied preemergence or early postemergence and preemergence applications of systemic insecticides may result in crop injury.

Meturon 80DF should not be applied more than three times to the same crop or field in a year. Do not plant crops other than cotton within six months of the last Meturon 80DF application as injury may result.

**ARIZONA, CALIFORNIA and NEW MEXICO:** With the exception of cotton, corn and grain sorghum which may be planted the next spring, do not plant other crops to Meturon 80DF treated areas for one year. Meturon 80DF is not to be used on coarse-textured soil of less than 1% organic matter.

**ARKANSAS, LOUISIANA and MISSISSIPPI:** Apply Meturon 80DF at 1 pound on sandy loam soil low in organic matter.

**WEST TEXAS:** Meturon 80DF is not to be used on sandy, loamy and or fine sandy loam soils nor on cotton planted in furrows.

## WARRANTY STATEMENT

Griffin warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at GRIFFIN's election, the replacement of this product. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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Meturon is a registered trademark of Griffin LLC.

Prowl is a registered trademark of BASF.

Trilin is a registered trademark of Griffin Corporation.

Zorial Rapid 80 us a registered trademark of Syngenta.

