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1812-323

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

APR 18 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

L. Vernon White
GRIFFIN CORPORATION
BOX 1847
VALDOSTA, GA 31603

Subject: Label Amendment Submission of 06/15/93 in Response to PR Notice 93-7
EPA Reg. No. 1812-323
METURON 80 DF

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, .. 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.



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Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

L. Vernon White
GRIFFIN CORPORATION
BOX 1847
VALDOSTA GA 31603

Comment for: EPA Reg Nr.1812-323
METURON 80 DF

The following specific comments pertain to your WPS
labeling submission concerning the product
cited above:

User Safety Recommendations must either be placed in a box
or printed on the label in a contrasting color from
surrounding text.

The Agricultural Use Requirements section must be located in
a clearly separate box on the product labeling -- with lines
or other graphic indicators (such as contrasting color) to
separate the section from the surrounding text.

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ACCEPTED
with COMMENTS
In EPA Letter Dated

July 18 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended for the pesticide
registered under EPA Reg. No.
1812-323

METURON® 80 DF

DRY FLOWABLE

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 to 2 glasses of water, milk, egg whites, or gelatin solution, and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Call physician immediately.

NOTE TO PHYSICIAN: There is no specific antidote for fluometuron. Induce emesis and lavage stomach. Give saline laxative and supportive therapy.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

GRIFFIN CORPORATION
VALDOSTA, GEORGIA 31601

EPA Reg. No. 1812-323

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

Precautionary Statements: Causes eye irritation. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes or clothing. ~~Wear protective clothing. Wash thoroughly with soap and water after handling.~~

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:
-long-sleeved shirt and long pants
-waterproof gloves
-shoes plus socks

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.

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.

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: 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.

DIRECTIONS FOR USE

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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 manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.~~ 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

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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 instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. The requirements in this block 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.

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 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

RE-ENTRY STATEMENT

~~Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product.~~

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
Crowfootgrass
Goosegrass
Brachiaria

Fall Panicum
Ryegrass
Crabgrass
Foxtail

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BROADLEAF WEEDS

Buttonweed
Goathead
Pigweed
Sesbania
Groundcherry (Wright)
Cocklebur
Lambsquarters

Purslane
Sicklepod
Tumbleweed
Prickly Sida (Ironweed or Teawood)
Florida Pusley
Morningglory
Ragweed
Smartweed

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

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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 drop the required number of unopened water soluble packs into 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 follow 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. Open the water soluble pack and 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. Use a minimum of 2.5 gallons of water to slurry a 5 lb. pack. Before tank-mixing with nitrogen solution, check for compatibility by using the following procedure. Open the water soluble pack and 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 band width and multiplying by the rate per acre broadcast will give the amount of Meturon 80DF needed on the band.

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

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. ~~Avoid applications directly to humans or animals.~~ Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin. ~~and wash thoroughly before eating and at the end of each days operation.~~

Crop	Timing / Method	Rate / Acre	Height	Use Instructions
Cotton				Meturon 80 DF 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 80 DF 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 80 DF 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 80 DF. Meturon 80 DF may be applied either preplant or preemergence, but not both.
	Preplant	1.25 to 2.5 pounds (4-2 acres/pack)		On light soil and sandy soils, low in organic matter, use the lower rate. Apply Meturon 80 DF to the surface of the soil. If tank mixed, follow precautions and label recommendations for use rates of product to be tank mixed.
	Preplant Incorporation (Arizona & New Mexico Only)	2 pounds (2.5 acres/pack)		After beds are prepared for pre-plant irrigation, apply Meturon 80 DF 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 pounds (4-2 acres/pack)		On light silt and sandy soils, low in organic matter, use the lower rate. Meturon 80 DF 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 pounds (4-2 acres/pack)	3 inches to lay-by	Meturon 80 DF may be applied postemergence to cotton and pre- 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.
		1.25 to 2.5 pounds		<u>Trilin® or other trifluralins</u> Meturon 80 DF 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.
		1.25 to 2.5 pounds		<u>Prowl</u> Meturon 80 DF may be applied preemergence following a preplant incorporated application of Prowl. Follow label recommendations for use rates of Prowl and precautions.
		1.25 to 2.5 pounds		<u>Zonal® Rapid 80</u> Meturon 80 DF may be applied preemergence following a preplant incorporated application of Zonal Rapid 80 or preemergence in combination with Zonal Rapid 80. Follow label recommendations for use rates of Zonal Rapid 80 and precautions.
		1.25 to 2.5 pounds (4-2 acres/pack)	3 inches to bloom	<u>DSMA / MSMA</u> Meturon 80 DF 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 at 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 this injury. The herbicidal activity of Meturon 80 DF may be lessened under dry conditions; however, rainfall sufficient to germinate seeds and grow the crop will usually activate Meturon 80 DF. Interaction between Meturon 80 DF when applied preemergence or early postemergence and preemergence applications of systemic insecticides may result in crop injury. Meturon 80 DF 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 80 DF 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 80 DF treated areas for one year. Meturon 80 DF is not to be used on coarse-textured soil of less than 1% organic matter. ARKANSAS, LOUISIANA AND MISSISSIPPI: Apply Meturon 80 DF at one pound on sandy loam soil low in organic matter. WEST TEXAS: Meturon 80 DF is not to be used on sandy, loamy sand or fine sandy loam soils nor on cotton planted in furrows.

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WARRANTY STATEMENT

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with 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. 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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