

Griffin

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Meturon 4L

Flowable Fluometuron Herbicide

FOR PREEMERGENCE AND POSTEMERGENCE WEED CONTROL
IN COTTON AND SUGARCANE

4/21/87
157 p.m.

ACTIVE INGREDIENT:

Fluometuron [1,1-dimethyl-3-(a,a,a-trifluoro-m-tolyl)urea] 41.2%

INERT INGREDIENTS 58.8%

TOTAL

100.00%

ACCEPTED

This product contains 4 pounds Fluometuron per gallon.

001-1 1987

KEEP OUT OF REACH OF CHILDREN WARNING

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 my sister)*

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.

OK
X-1

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GRIFFIN CORPORATION

VALDOSTA, GEORGIA 31601

EPA Reg. No. 1812-285

EPA Est. No. 1812-GA-3

Net Contents: 2 1/2 Gallons

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING**

Causes eye irritation. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes or clothing. Wear protective clothing, as this product may cause skin rash after repeated exposure. Wash thoroughly with soap and water after handling. 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 enter treated area without protective clothing until sprays have dried.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. 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 labeling.

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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: 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.

**DIRECTIONS FOR USE AND CONDITIONS
OF SALE AND WARRANTY**

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

GENERAL INFORMATION

METURON 4L is effective for both annual grass and annual broadleaf weed control in cotton and sugarcane.

WEED CONTROL

METURON 4L applied according to directions will selectively control annual weeds in cotton and sugarcane, such as:

ANNUAL GRASS WEEDS

Barnyardgrass
Brachiaria
Crabgrass
Crowfootgrass

Fall panicum
Foxtail
Goosegrass
Ryegrass

ANNUAL BROADLEAF WEEDS

Buttonweed
Cocklebur
Florida pusley
Goathead
Groundcherry
(Wright)
Jimsonweed
Lambsquarters
Morningglory

Pigweed
Prickly sida
(Ironweed or tearweed)
Purslane
Ragweed
Sesbania
Sicklepod
Smartweed
Tumbleweed

METURON 4L at rates up to 2 quarts per acre in cotton and up to 1 gallon per acre in sugarcane is not effective for the control of established perennial weeds, such as johnsongrass from rhizomes.

APPLICATION PROCEDURES

COMPATIBILITY

To determine compatibility, add one tablespoon of METURON 4L to one pint of nitrogen solution (equals approximately 2 quarts in 20 gallons; if using other application rates, adjust compatibility test amounts proportionally). Stir or shake thoroughly. Let stand 5 minutes. If it remains mixed or can be remixed readily, the mixture is compatible and can be used. If METURON 4L agglomerates out when mixed with nitrogen solution, a suspensibility agent may improve compatibility. Add suspensibility agent to the compatibility test to determine its effectiveness.

EQUIPMENT

Use bypass or mechanical agitation in the spray tank. 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.

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.

For uniform distribution use fan-type nozzles. Use 50 mesh or coarser screens in nozzles and strainers. Use a suitable pump with capacity to deliver (1) the necessary volume to the nozzles at 35 to 40 psi, and (2) an additional volume to maintain the mixture in suspension in the spray tank. Apply in 20 to 40 gallons of spray mixture per acre.

BAND TREATMENT

For band treatment, calculate the amount of METURON 4L needed by the formula:

$$\begin{array}{l} \text{band width} \\ \text{in inches} \end{array} \times \begin{array}{l} \text{broadcast} \\ \text{rate} \\ \text{per acre} \end{array} = \begin{array}{l} \text{amount} \\ \text{needed} \\ \text{per acre} \\ \text{of field} \end{array}$$

$$\frac{\text{row width}}{\text{in inches}}$$

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DIRECTIONS FOR USE

COTTON

METURON 4L may be applied as a preemergence treatment to the surface of the soil, or lightly incorporated, immediately after planting, or as a directed, semi-directed, or over-the-top postemergence application. For preemergence treatment only, METURON 4L may be tank-mixed with most liquid nitrogen fertilizers. METURON 4L may be combined with other herbicides in cotton as directed in the section, "Combinations."

METURON 4L is most effective when used as follows:

1st Application: Preemergence broadcast. See Preemergence Treatment below.

2nd Application: Postemergence, directed, semi-directed, or over-the-top when cotton is 3 to 6 inches high. See Postemergence Treatments below.

3rd Application: If needed, postemergence, directed, or semi-directed, at lay-by (last normal cultivation), using no more than 1 quart per acre.

PREEMERGENCE TREATMENT

Apply METURON 4L at a rate of 1 to 2 quarts per acre. On light silt and sandy soils, low in organic matter, use the lower rate.

METURON 4L may be applied to the surface of the soil, or lightly incorporated into the soil, after planting cotton.

PREPLANT INCORPORATED USE (ARIZONA AND NEW MEXICO)

METURON 4L may be applied preplant as a broadcast spray at 1.6 quarts 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 re-formed. Do not allow furrow irrigation water to pond over the beds.

POSTEMERGENCE TREATMENTS

METURON 4L may be applied postemergence to cotton but preemergence to weeds, or postemergence to both cotton and weeds. METURON 4L should be applied at rates of 1 to 2 quarts per acre. Apply as a directed, semi-directed, or over-the-top spray. METURON 4L may be applied to cotton plants at any stage of growth from 3 inches high to lay-by. 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 METURON 4L when applied to cotton may enhance the postemergence herbicidal activity of METURON 4L. The surfactant rate should not exceed 0.5% of the carrier volume (1 pint per 25 gallons of water).

PRECAUTIONS: Rainfall that is sufficient to germinate seeds or for growing crops is adequate to activate the herbicidal activity of METURON 4L; where dry weather conditions prevail, the herbicidal activity of METURON 4L may be delayed or reduced.

Do not make more than three applications of METURON 4L to the same crops or field in any one year. Do not plant crops other than cotton within 6 months of the last application of METURON 4L or injury may result.

The use of METURON 4L 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 METURON 4L on sandy, loamy sand, or fine sandy loam soils. Do not use METURON 4L on cotton planted in furrows.

ARKANSAS, LOUISIANA, AND MISSISSIPPI ONLY: Use 0.8 quarts of METURON 4L per acre on sandy loam soils low in organic matter.

ARIZONA 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.

NOTE: Do not apply within 60 days of harvest. Do not feed foliage from treated cotton plants or gin trash to livestock.

COMBINATIONS

Tolban® 4E: Use in a tank mixture or in an overlay combination with METURON 4L in cotton for control of all weeds listed on both labels. Refer to the Tolban 4E labels for all directions, precautions and limitations.

Treflan® EC: Use in a tank mixture with METURON 4L (all areas except Arizona) or before an overlay with METURON 4L in cotton for control of all weeds listed on both labels. For the tank mixture, refer to the Treflan® EC labels for directions, precautions and limitations. For the overlay, apply METURON 4L as a preemergence surface treatment as recommended on this label at 1 to 2 quarts per acre after a preplant soil incorporated treatment of Treflan® EC. Apply Treflan® EC as recommended on its label at 1 to 2.5 pints per acre.

Prowl®: Apply METURON 4L as a preemergence surface treatment as recommended on this label at 1 to 2 quarts 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 to 3 pints per acre.

DSMA OR MSMA: METURON 4L may be tank-mixed with DSMA or MSMA and applied as directed spray to cotton from three inches high to first bloom. Use the broadcast rate of 1 to 2 quarts of METURON 4L 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 METURON 4L + DSMA and METURON 4L + 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 and limitations on the labels of the products.

SUGARCANE

METURON 4L may be applied as a preemergence application to sugarcane at any time after planting, and a second application may be made postemergence to sugarcane 12 to 18 inches high.

METURON 4L is most effective in sugarcane when used as follows:

PLANT CANE

1st Application: Preemergence broadcast, at a rate of 2 to 4 quarts per acre to the surface of the soil after planting sugarcane, or any time before cane and weeds emerge. On muck soils, the maximum rate of METURON 4L may not give adequate weed control.

2nd Application: Postemergence, directed, semi-directed, or over-the-top of the cane at a rate of 2 to 4 quarts per acre when sugarcane is 12 to 18 inches high. This application should be made preemergence to weeds, or to weeds less than 2 inches in height.

RATOON CANE

1st Application: Preemergence broadcast, at a rate of 2 to 4 quarts per acre after harvest and any time before new cane shoots and weeds emerge.

2nd Application: Postemergence, directed, semi-directed, or over-the-top of the cane at a rate of 2 to 4 quarts per acre when cane is 12 to 18 inches high. This application should be made preemergence to weeds, or to weeds less than 2 inches in height.

PRECAUTION: Do not apply more than 2 gallons of METURON 4L to the soil during any one year. Do not plant crops other than sugarcane or cotton within one year after the last application or injury may result.

NOTE: Do not apply within 180 days of harvest. Do not graze treated fields with livestock.

Prowl® trademark of American Cyanamid for pendimethalin

Tolban® trademark of Ciba-Geigy for profluralin

Treflan® trademark of Elanco Products for trifluralin

U.S. Patent Nos. 3,546,295; 3,672,864

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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