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5905-494

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Accepted label dated 2/25/86; notification 8/4/95

FLUOMETURON 80WP HERBICIDE

For Preemergence and Postemergence Weed Control in Cotton

ACTIVE INGREDIENT:

Fluometuron (1,1-dimethyl-3-(2,2,2-trifluoro-M-tolyl) urea)..... 80.0%

INERT INGREDIENTS*:..... 20.0%

TOTAL..... 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you.)

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 5905-494
EPA EST. NO.

ACCEPTED
with ~~COMMENTS~~
In EPA Letter Dated

NET CONTENTS:

NOV - 4 1996

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

5905-494

MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119

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

WARNING - AVISO

Causes eye irritation. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin or clothing. Avoid breathing spray mist.

STATEMENT OF PRACTICAL TREATMENT

If in Eyes: Flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

If on Skin: Wash immediately with plenty of soap and water.

If Swallowed: Drink promptly a large quantity of milk, egg whites, or gelatin solution; if these are not available, drink large quantities of water. Induce vomiting. Avoid alcohol. Call a physician immediately.

If Inhaled: Move from the contaminated area.

Note to Physician: There is no specific antidote for fluometuron. Induce emesis and lavage stomach. Give a saline laxative and supportive therapy.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes Plus socks
- 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.

ENGINEERING CONTROLS STATEMENT

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 to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

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. 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. 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
- Protective eyewear

STORAGE AND DISPOSAL

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

Store in a dry place. 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.

GENERAL INFORMATION

FLUOMETURON 80WP is effective for both annual grass and annual broadleaf weed control in cotton.

When applied according to directions, **FLUOMETURON 80WP** will selectively control annual weeds in cotton such as:

Annual Grass Weeds

Barnyardgrass	Fall panicum
<i>Brachiaria</i>	Foxtail
Crabgrass	Goosegrass
Crowfootgrass	Ryegrass

Annual Broadleaf Weeds

Buttonweed	Pigweed
Cocklebur	Prickly sida
Florida pusley	(ironweed or
Goathead	teaweed)
Groundcherry	Purslane
(Wright)	Ragweed
Jimsonweed	Sesbania
Lambsquarters	Sicklepod
Morningglory	Smartweed
	Tumbleweed

At rates up to 2.5 lbs . per acre is not effective for the control of established perennial weeds, such as johnsongrass from rhizomes.

MIXING INSTRUCTIONS

FLUOMETURON 80WP is highly concentrated and should be thoroughly mixed as a paste or thick slurry in water in a separate container before adding to the spray tank. The spray tank should contain 1/3-1/2 the total amount of water or nitrogen solution to be used before adding the slurry.

To determine compatibility, add one tablespoon product to one pint of nitrogen solution (equals 2.5 lbs. in 25 gals.; 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 product settles out when mixed with nitrogen solution, a suspensibility agent, such as Compex® at 1-2 pts. per 100 gals. fertilizer may improve compatibility. Add 1/8-1/4 teaspoon of Compex to the compatibility test to determine its effectiveness.

Use bypass or mechanical agitation in the spray tank. Avoid leaving spray mixture 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.

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.

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 35-40 psi, and (2) an additional volume to maintain the mixture in suspension in the spray tank. Apply 20-40 gals. of spray mixture per acre.

BAND TREATMENT

For band treatment, calculate the amount of **FLUOMETURON 80WP** needed by the formula:

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

COTTON

FLUOMETURON 80WP 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, product may be tank-mixed with most liquid nitrogen fertilizers. Product may be combined with other herbicides in cotton as directed in the section, "Combinations".

FLUOMETURON 80WP 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 3-6 inches high. See Postmergence Treatments below.

3rd Application: If needed, postemergence, directed, or semi-directed, at lay-by (last normal cultivation), using no more than 1.25 lbs. per acre.

Preemergence Treatment

Apply at a rate of 1.25-2.5 lbs. per acre. On light silt and sandy soils, low in organic matter, use the lower rate.

Product 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)

May be applied preplant as a broadcast spray at 2 lbs. 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 1-2 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

May be applied postemergence to cotton, but preemergence to weeds, or postemergence to both cotton and weeds. Apply at rates of 1.25-2.5 lbs. per acre. Apply as a directed, semi-directed, or over-the-top spray. 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 **FLUOMETURON 80WP** when applied to cotton may enhance the postemergence herbicidal activity of product. The surfactant rate should not exceed 0.5% of the carrier volume (1 pt. per 25 gals. of water).

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

Do not make more than 3 applications of **FLUOMETURON 80WP** to the same crops or field in any one year. Do not plant crops other than cotton within 6 months of the last application or injury may result.

The use of **FLUOMETURON 80WP** 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 on sandy, loamy sand, or fine sandy loam soils. Do not use on cotton planted in furrows.

Arkansas, Louisiana, and Mississippi Only: Use 1 lb. per acre on sandy loam soils low in organic matter.

Arizona, California, and New Mexico Only: Cotton, corn, and grain sorghum may 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

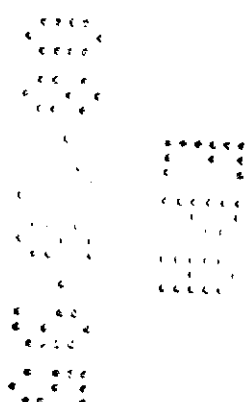
Tolban®4E: Use in a tank mixture or in an overlay combination for control of all weeds listed on both labels. Refer to the Tolban 4E label for all directions, precautions, and limitations.

Treflan®EC: Use in a tank mixture (all areas except Arizona and California) or before an overlay for control of all weeds listed on both labels. For the tank mixture, refer to the Treflan EC for directions, precautions, and limitations. For the overlay, apply **FLUOMETURON 80WP** as a preemergence surface treatment as recommended on this label at 1.25-2.5 lbs. per acre after a preplant soil-incorporated treatment of Treflan EC. Apply Treflan EC as recommended on its label at 1-2.5 per acre.

Prowl®: Apply **FLUOMETURON 80WP** as a preemergence surface treatment as recommended on this label at 1.25-2.5 lbs. 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 pts. per acre.

DSMA or MSMA: **FLUOMETURON 80WP** may be tank-mixed and applied as a directed spray to cotton from 3 inches high to first bloom. Use the broadcast rate of 1.25-2.5 lbs. of **FLUOMETURON 80WP** per acre and the necessary amount of DSMA or MSMA plus 0.5% (1 pt. per 25 gals.) of a surfactant that is approved by FDA for use on food and feed crops and is compatible with **FLUOMETURON 80WP** + 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.

Compex® is a registered trademark of Kalo Laboratories, Inc.
Prowl® is a registered trademark of American Cyanamid for pendimethalin.
Tolban® is a registered trademark of Ciba-Geigy for profluralin.
Treflan® is a registered trademark of DowElanco for trifluralin.



**CONDITIONS OF SALE - LIMITED WARRANTY
AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against the Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. The Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

