

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OCT 14 1994

Dennis H. Lade, Ph.D.
DowElanco
9340 Zionsville Rd.
Indianapolis, IN 46268-1053

Dear Dr. Lade:

SUBJECT: Label Amendments
DowElanco/Treflan 5
EPA Reg. No. 62719-118
Treflan plus Dual Tank Mix for Control of DNA Resistant
Goose Grass - Application Dated March 8, 1993

Treflan plus Dual Tank Mix for Enhanced Control of
Broadleaf Signalgrass in Soybeans - Application Dated
March 11, 1993

Treflan 5 Chemigation Application in Tree and Vine Crops
- Application Dated May 11, 1993

The labelings referred to above, submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

1. On the labeling for chemigation, under the section for Broadcast Application, in the equation for the broadcast application, change "20 acres x 2.3 pt...", to read "20 acres x 3.2 pt..."

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for each of the above mentioned labels before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

CONCURRENCES

SYMBOL	7505C							
SURNAME	Miller							
DATE	10/14/94							

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U.S. Crop Production

Supplemental Labeling



DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

~~Treflan® E.C. (EPA Reg. No. 62719-93)~~
~~Treflan M.T.F. (EPA Reg. No. 62719-116)~~
Treflan 5 (EPA Reg. No. 62719-118)

Special Use Program - Control of DNA-Resistant Goosegrass in Soybeans with Treflan Plus Dual Tank Mix

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Treflan herbicide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Treflan according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Treflan.

Directions for Use

Apply Treflan plus Dual herbicide tank-mix as a preplant incorporated treatment to control DNA-resistant goosegrass in soybeans. Follow application and incorporation directions provided in the label for Treflan.

Broadcast Application Rates/Acre

Soil Texture	Soils with 0 - 2% Organic Matter		
	Treflan E.C. or Treflan M.T.F. (pints)	Treflan 5 (pints)	Dual 8E (pints)
Coarse	1.0	0.8 ✓	1.25 ✓
Medium	1.5	1.2 ✓	1.5 ✓
Fine	2.0	1.6 ✓	2 ✓

- Coarse and medium soils with 2-5% organic matter - 1.5 pints of Treflan E.C. or M.T.F. or 1.2 pints of Treflan 5
- Fine soils with 2-5% organic matter - 2.0 pints of Treflan E.C. or M.T.F. or 1.6 pints of Treflan 5

Note: Follow all applicable use directions, precautions and limitations in the product label for Dual herbicide.

ACCEPTED
with COMMENTS
to EPA Letter Dated

OCT 14 1994

Under the FIFRA Act, this label is approved for use on the following crops and uses as registered under EPA Reg. No.

62719-118

*Trademark of DowElanco

(Label Code) Approved / /
Initial printing.

Amendments:

- 1) Adds use of Treflan plus Dual tank mix for control of DNA-resistant goosegrass in soybeans.

BEST AVAILABLE COPY

Supplemental Labeling



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DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

~~Treflan® E.C. (EPA Reg. No. 62719-93)~~
~~Treflan M.T.F. (EPA Reg. No. 62719-116)~~
 Treflan 5 (EPA Reg. No. 62719-118)

Special Use Program - Enhanced Control of Broadleaf Signalgrass in Soybeans with Treflan Plus Dual Tank Mix

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Treflan herbicide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Treflan according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Treflan.

Directions for Use

Apply Treflan plus Dual herbicide tank-mix as a preplant incorporated treatment for enhanced control of broadleaf signalgrass in soybeans. Follow application and incorporation directions provided in the label for Treflan.

Broadcast Application Rates/Acre

Soil Texture	Soils with 0 - 2% Organic Matter		
	Treflan E.C. or Treflan M.T.F. (pints)	Treflan 5 (pints)	Dual 8E (pints)
Coarse	1.0	0.8	1.25 - 1.5
Medium	1.5	1.2	1.5 - 2
Fine	2.0	1.6	2 - 2.5

- Coarse and medium soils with 2-5% organic matter - 1.5 pints of Treflan E.C. or M.T.F. or 1.2 pints of Treflan 5
- Fine soils with 2-5% organic matter - 2.0 pints of Treflan E.C. or M.T.F. or 1.6 pints of Treflan 5

Note: Follow all applicable use directions, precautions and limitations in the product label for Dual herbicide.

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT 14 1994

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

62719-118

*Trademark of DowElanco

(Label Code) Approved / /
Initial printing.

Amendments:

- 1.) Adds use of Treflan plus Dual tank mix for enhanced control of broadleaf signalgrass in soybeans.

BEST AVAILABLE COPY

U.S. Crop Production

Supplemental Labeling

ACCEPTED
with conditions
by EPA Reg. No. 62719-118

OCT 14 1994

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

62719-118



DowElanco

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DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

Treflan* 5

EPA Reg. No. 62719-118

Use Directions for Chemigation In Established Plantings of Tree and Vine Crops

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Treflan 5 herbicide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Treflan 5 according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Treflan 5.

Directions for Use

Treflan 5 may be applied through sprinkler irrigation systems for weed control in certain fruit and nut orchards or vineyards. See listing of established plantings of tree and vine crops in "Approved Crops" section of the label for Treflan 5. Read and follow all label instructions outlined below concerning chemigation before applying Treflan 5 by this method.

General Chemigation Directions:

- Apply this product only through solid set or hand move sprinkler irrigation systems equipped for chemigation. Do not apply this product through any other type of irrigation system.
- Do not connect an irrigation system used for pesticide application to a public water system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non uniform distribution of treated water.
- The chemigation metering pump should be checked periodically during application to ensure proper operation.
- The injection metering pump must be calibrated as specified by the manufacturer.
- If you have questions about calibration you should contact State Extension specialists, equipment manufacturers or other experts.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Sprinkler Chemigation Directions:

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point that pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Pesticide injection hoses which connect chemigation metering equipment to the sprinkler irrigation system should be of braided reinforced construction with an internal tube made of nylon, cross-linked polyethylene or high density polyethylene.

Application Instructions

- Apply Treflan 5 at a rate of 1.6 to 3.2 pints per broadcast acre.
- Total chemigation period for Treflan 5 should not exceed 4 hours.
- Application of Treflan 5 through irrigation systems should be used as a supplemental weed control practice.
- Do not apply when wind speed favor drift beyond the area intended for treatment.
- Calibration and distribution may be more accurately achieved by injecting a larger volume of a more dilute solution. If desired, dilute Treflan 5 with water prior to injection and mix thoroughly. During chemigation, maintain agitation in the supply tank at all times.
- Sprinkler systems should be calibrated to deliver a volume of 4-50 gallons per hour per emitter.
- Inject Treflan 5 into the irrigation system during the middle of the irrigation cycle. The application interval should be such that at one period of time during the injection, the first and last emitters in the system are simultaneously emitting water containing Treflan 5. After application is complete, flush equipment with clean water and then continue to irrigate for one to two hours.

Use Precautions

- Do not apply to vineyards within 60 days of harvest.
- Do not allow treated irrigation water to contact the fruit or foliage.
- To prevent ground water contamination, follow all irrigation system requirements.

Chemigation System Calibration (Sample Calculations)

A. Broadcast Application:

- Assume, in this example, 20 acres are to be covered by a chemigation treatment.
- Product required, assuming a rate of 3.2 pints/acre, is 64 pints
(20 acres x 3.2 pt/acre = 64 pints = 8 gallons)
- Inject 8 gallons of Treflan 5 into the irrigation system over a time period not to exceed 4 hours.

B. Non-Broadcast Application:

- Calculation of use rate is based on wetted area around each emitter or sprinkler head.
- Treated area per emitter = A

$$(A = 3.14 \times \text{radius} \times \text{radius})$$

Example: If the average distance from the emitter to the perimeter of the wetted area = 36 inches, then:

$$A = 3.14 \times 36" \times 36" = 4069.4 \text{ square inches}$$

- Area in square feet wetted in each = B

$$B = \frac{A \times \text{Emitters/acre}}{144}$$

Example: If there are 200 emitters per acre, then:

$$B = 4069.4 \times 200 = 5651.9 \text{ square feet}$$

- Total area in square feet wetted by system = C

$$C = B \times \text{acres covered by the irrigation system}$$

Example: If the system covers 20 acres, then:

$$C = 5651.9 \text{ square feet} \times 20 = 113,038 \text{ square feet}$$

- Total area, in acres, wetted by system = D

$$D = \frac{C}{43,560} = \frac{113,038}{43,560} = 2.595 \text{ acres}$$

- The amount of Treflan 5 to be injected into the irrigation system = D x rate per acre

Example: If the desired rate is 3.2 pints/acre, then:

$2.595 \times 3.2 = 8.3$ pints of Treflan 5 injected into the irrigation system over a time period not to exceed 4 hours.

*Trademark of DowElanco

(Label code) Approved ___/___/___
Initial printing.

Amendments:

- 1) Chemigation application in tree and vine crops added to uses for Treflan 5.