

OCT 26 1984

Mr. L. E. Peterson  
Elanco Products Company  
A Division of Eli Lilly and Company  
740 South Alabama Street  
Indianapolis, IN 46285

Dear Mr. Peterson:

Subject: Amendment - Supplemental Label - Add Use in Home  
Vegetable Gardens  
Treflan E.C. Weed and Grass Preventer  
EPA Registration No. 1471-65  
Your Submission of October 19, 1984

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. The headings and statements on the last two pages of Supplemental Labeling should be identical to the container label.
  - b. The statement "crush container" may be inappropriate. Delete "or burying." Refer to the attached PR Notice 83-3. Household use only products must bear the statement: Securely wrap original container in several layers of newspaper and discard in trash.
3. The new brand name in the subject is acceptable and has been included in the file for this product.
4. Submit five (5) copies of your final printed labeling before you release the product for shipment.


CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Richard F. Mountfort   
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (TS-767)

Enclosure

RD:DCR-50748:Mountfort:RD-6A:KIM:Kendrick:898-1270:10/24/84:Del.11/01/84

ELANCO ID 5902

WEED AND GRASS  
PREVENTER

# Treflan

E. C.

Net Contents 1 Quart

**A selective, preemergence herbicide for use in  
ornamentals and vegetable gardens for the  
control of annual grasses and broadleaf weeds**

Active ingredient  
Trifluralin (2,4,6-trifluoro-2,6-  
dinitro-N,N-diphenyl-p-toluidine) 44.5%  
Inert ingredients 55.5%  
Contains 1 pound active ingredient per quart  
"Treflan" is the registered trademark for Elanco Products trifluralin  
U.S. Patent No. Re. 31227

Keep Out of Reach of Children

## WARNING

See back of container for additional precautionary statements  
EPA Reg. No. 1471-65

WU 0200 AMX

ACCEPTED  
with comments  
OCT 26 1984  
EPA REG. NO. 1471-65

## Directions for Use : Read All Directions Carefully Before Applying

See literature under label, for complete directions for use  
It is a violation of Federal Law to use this product in a manner inconsistent with these directions.

## Precautionary Statements

### Hazards to Humans and Domestic Animals

#### WARNING

Do not get in eyes. Avoid contact with skin and clothing. Harmful if absorbed. Treflan Emulsifiable Concentrate may cause skin sensitization reactions. Wear protective clothing such as coveralls, a long-sleeved shirt, and gloves when handling this product.

**First Aid:** In case of contact, immediately flush eyes or skin with plenty of water. Remove and wash contaminated clothing before reuse.

#### Environmental Hazards

Direct contamination of any body of water with this emulsifiable concentrate is prohibited. Do not contaminate any body of water by direct application of wastes.

## STORAGE AND DISPOSAL

**Storage:** Avoid freezing. Store above 40°F. If frozen, pour weed preventer into a heat or open flame. Store in original container only. In case of fire, contain liquids and dispose as waste.

**Pesticide Disposal:** Do not contaminate water, food or feed by storage or use. This product may be disposed of on site or at an approved disposal site.

**Container Disposal:** Triple rinse for equivalents. Then offer for recycling or disposal in a sanitary landfill or by incineration, or if a lower quality of burning, if burned, stay out of smoke.

The manufacturer makes no warranties, express or implied, concerning this product. The statements of fact published by Elanco Products Company, and all statements as directed, Elanco Products Company expressly disclaims all warranties, express or implied, in connection with the use of this product. No liability is assumed for any damage, loss or injury not directly caused by the use of this product.

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# WEEDS AND GRASSES CONTROLLED BY TREFLAN

## GRASSES

Annual bluegrass  
Barnyardgrass (Watergrass)  
Brachiaria  
Bromegrass  
Cheat  
Crabgrass  
Foxtail  
Goosegrass  
Johnsongrass (from seed)  
Junglerice  
Panicum, Fall  
Panicum, Texas  
Sandbur  
Sprangletop

Stinkgrass  
Woolly cupgrass

## BROADLEAF WEEDS

Carpetweed  
Chickweed  
Florida pusley  
Goosefoot  
Knotweed  
Kochia  
Lambquarters  
Pigweed  
Puncturevine (Western U.S. only)  
Ruslane  
Russian thistle  
Stinging nettle

## SOIL PREPARATION

Crop Residues or Existing Weeds: Crop residues or existing weeds can interfere with the moving of Treflan to the soil. A manageable level of such residues would allow the Treflan to be uniformly mixed into the top 2 to 3 inches of soil. If the level of the crop residue is such that this cannot be done, you must till the soil prior to the application.

## SOIL TEXTURE GUIDE

The amount of Treflan you apply will vary with the soil texture. A fine textured soil will require more Treflan than a coarse soil. Choose the proper rate for each application based on the following soil texture group and specific crop recommendations. Do not exceed recommended rates.

Soil Texture	Coarse Soils (Light) Sands, loamy sands, and sandy loams.	Medium Soils Silt or loam	Fine Soils (Heavy) Clay loams, silty clay loams, clays, silty clays.
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## MIXING DIRECTIONS

Start with a clean spray tank. Fill sprayer 1/2 full with clean water. Add correct quantity of Treflan. Close sprayer and shake well to mix Treflan. Finish filling sprayer and shake occasionally to keep Treflan mixed in the tank.

~~Hose end sprayers may also be used for applying Treflan.~~ Follow ~~the application directions included with the hose end sprayer.~~

## GROUND APPLICATION

Apply Treflan in 1 to 5 gallons of water per 1,000 square feet on a broadcast basis. Spray uniformly over the top of the soil surface to assure satisfactory weed control.

## INCORPORATION DIRECTION

Mix Treflan thoroughly into the soil with a tool or implement that breaks up large clods and distributes the chemical within the soil. The more thoroughly the Treflan is mixed within the soil, the more consistent the weed control.

Thoroughly mix Treflan in the top 2 to 3 inches of the final seedbed (when the garden is ready for planting), or erratic weed control and/or crop injury may result. Equipment such as a rototiller or rake should be used to mix Treflan to the desired 2 to 3 inch depth.

### Incorporation Before Planting

Treflan must be mixed into the soil within 24 hours after application. You should mix the Treflan uniformly into the top 2 to 3 inches of the final seedbed.

### Incorporation After Planting

Check specific crop for incorporation directions after planting.

## CULTIVATION AFTER PLANTING

Soil treated with Treflan may be shallow cultivated without reducing the weed control activity of Treflan. Do not cultivate deeper than the treated soil since this may bring untreated soil to the surface, and poor weed control may result.

## CROP RECOMMENDATIONS

These recommendations are given as broadcast rates of Treflan per 1,000 square feet. Apply any time after January 1 when the soil can be worked and is suitable for good incorporation. Do not use Treflan on soils containing more than 10% organic matter. Treflan should not be used in areas to be planted with sweet corn or direct seeded cucurbits.

FOR THE FOLLOWING CROP GROUPING, USE THE RATE LISTED BELOW.

Apply and incorporate Treflan before planting, at planting or immediately after planting unless otherwise indicated.

Broadcast Rates Per 1,000 Square Feet

Treflan E.C.

<u>Soil Texture</u>	<u>Teaspoons</u>
Coarse	2 1/4
Medium	3 1/3
Fine	4 1/2

**ASPARAGUS - ESTABLISHED**

Follow recommended soil preparation, application and incorporation procedures for Treflan.

Treflan can be applied to established asparagus as a single application. Apply Treflan to asparagus after ferns are removed but before spear emergence.

**CARROT**

**CELERY** - (Direct seeded and transplant)

**COLE CROPS - TRANSPLANT** (Broccoli, Brussels Sprout, Cabbage and Cauliflower) Apply and incorporate prior to transplanting only. See next section for direct seeded.

**CUCURBITS - POSTPLANT EMERGED** (Cantaloupe, Cucumber and Watermelon)

Apply Treflan as a directed spray to the soil between the rows and beneath plants which are in the 3 to 4 true leaf stage.

After applying Treflan to the soil, incorporation is necessary to mix the chemical to the 2"-3" desired depth. Optimum weed control will be achieved by moving a portion of the treated soil around the base of the established plants.

**OKRA**

**PEPPER - TRANSPLANT** - Apply and incorporate prior to transplanting only.

**POTATO** (All states except Maine)

Apply and incorporate Treflan after planting, before emergence, or immediately following hilling or after the potato plants have fully emerged.

Mix Treflan into the soil so a uniform layer of treated soil covers the bed. Concentrated areas of chemical in the bed may retard potato emergence and cause stem brittleness. If potato plants are already emerged when cultivating, do not totally cover foliage with treated soil. Do not damage potato seed pieces or elongating sprouts with incorporation equipment.

SOUTHERN PEA (Before planting only.)

TOMATO - TRANSPLANT - Apply and incorporate prior to transplanting only.

FOR THE FOLLOWING CROP GROUPING, USE THE RATE LISTED BELOW.

Apply and incorporate Treflan before planting.

Broadcast Rates Per 1,000 Square Feet

Treflan E.C.

<u>Soil Texture</u>	<u>Teaspoons</u>
Coarse	2 1/4
Medium	2 1/4
Fine	3 1/3

BEANS - (Lima Bean and Snap Bean)

COLE CROPS - DIRECT SEEDED (Broccoli, Brussels Sprout, Cabbage and Cauliflower)

See above section for transplant.

GREENS - Turnip greens, Collard, Kale and Mustard Greens.

GREEN PEA

TREFLAN RATE CONVERSION CHART  
RATE PER THOUSAND SQUARE FEET TO RATE PER ACRE

<u>Rate Per 1,000 Square Feet Is: Teaspoons</u>	<u>Rate Per Acre: Pints</u>
2 1/4	1
3-1/3	1 1/2
4 1/2	2

### Small Sprayer Calibration Technique

Small sprayer calibration can be achieved by following these five simple steps.

1. Fill the sprayer full of clean water.
2. Spray as you would normally apply chemicals through the sprayer over the area to be treated.
3. When the sprayer is empty, measure the area treated to determine the number of square feet per sprayer load.
4. After you have calculated the number of square feet per sprayer load, calculate the amount of Treflan needed to treat that size area.
5. Refer to the mixing directions on the Treflan product label.

### STORAGE

Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or flame.

### CONTAINER DISPOSAL DIRECTIONS

Empty container into spray tank; drain in vertical position for 3 seconds. Refill container with water 1/5 to 1/4 full, rinse thoroughly, pour into tank, drain. Repeat rinsing and draining 3 times. Add water to spray tank. Do not reuse container. Crush container for recycling or burying.

### SPECIAL PRECAUTIONS

Applied according to directions and under normal growing conditions, Treflan will not harm the treated crop. Overapplication may result in crop injury or a soil residue. Uneven application or improper soil incorporation of Treflan can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from Treflan. Under these conditions, delayed crop development or reduced yields may result.

### WARNING

Human: Keep out of reach of children. Do not get in eyes. Avoid contact with skin and clothing. Harmful if swallowed or absorbed through the skin. Use protective clothing such as coveralls, a long sleeved shirt and impermeable gloves when handling this product. Treflan E.C. may cause skin sensitization reactions in certain individuals. Do not contaminate foodstuffs or feeds.

First Aid: In case of contact, immediately flush eyes or skin with plenty of water. For eyes, call a physician. Remove and wash contaminated clothing before reuse.



Environmental: Direct contamination of any body of water with this product may kill fish and other aquatic organisms. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

#### INHERENT RISKS OF USE

Failure to carefully follow the directions for use of Treflan, as well as other factors such as seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought, may result in unsatisfactory weed control or crop injury. Reduced yields may result under these conditions.

Treflan - the registered trademark for Elanco Products Company  
trifluralin.

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Elanco Products Company  
A Division of Eli Lilly and Company  
Indianapolis, Indiana 46206, U.S.A.