

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Steve A. McMaster Regulatory Leader Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

5 2010 FFB

Subject: Notification(s) for Label Revisions under PRN 2007-4

Dear Mr. McMaster:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 dated December 1, 2009 for:

EPA Registration 62719-97 EPA Registration 62719-217 EPA Registration 62719-226 EPA Registration 62719-98

Treflan E.C. Weed and Grass Preventer XRM-5202 Specialty Herbicide Dow AgroSciences Brush & Weed Herbicide Treflan 5G

The Registration Division (RD) has conducted a review of the request(s) for applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identify the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by nonnotification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely.

Linda Arrington

Notifications & Minor Formulations Team Leader Registration Division (7505P)

Office of Pesticide Programs

| Please read instructions on | reverse before comp | ing form, | | Form Appro | ovec. | -ÓMB No. 20° | 70-006 | O. Approval expires 2-28-9! |
|--|--|--|--|--|-------------------|---|------------------------------------|--|
| \$EPA | Environmenta | Inited States I Protection Ington, DC 204 | • | | | Registrati Amendmo Other | | OPP Identifier Number |
| | | Applicatio | n for Pesticio | de - Secti | on I | | | |
| Company/Product Numbe Dow AgroSciences LLC | | | | Product Manag Tompkins | ger | | r | oposed Classification |
| 4. Company/Product (Name) Dow AgroSciences LL(| | | PM# 25 | | | | | |
| 5. Name and Address of App Dow AgroSciences L 9330 Zionsville Road Indianapolis, IN 4626 Check if this | LC | ode) | (b)(i), m to: EPA R | y product is | simil | | al in co | FIFRA Section 3(c)(3) mposition and labeling |
| | | | Section - I | 8 | | | | |
| Amendment - Explain Resubmission in resp | onse to Agency letter | r dated | | Final printed Agency letter "Me Too" Ap Other - Expla | r date oplicat | tion. | | ATION 2010 |
| Explanation: Use addition Notification of label change pregulations at 40 CFR 156.1 formula for this product. I uramended label is not consist and I may be subject to enfo | per PR Notice 2007-4. 0, 156.140, 156.144, 15 derstand that it is a vio ent with the requiremen | This notification 56.146, and 156 lation of 18 U.S nts of 40 CFR 19 | is consistent with th ,156. No other chan .C. Sec. 1001 to willf 56.10, 156.140, 156. | iges have been ully make any 1 144, 156.146, a | made false s | e to the labeling statement to EF | or the d | confidential statement of the understand that if the |
| | | | Section - II | 1 | | | | |
| 1. Material This Product Wil | l Be Packaged In: | | | | | | | |
| Child-Resistant Packaging Yes No Certification must be submitted | Unit Packaging Yes No If "Yes" Unit Packaging wgt | | Water Soluble Portion Yes ✓ No If "Yes" Package wgt | No. per container | | | Metal Plastic Glass Paper | ipecify) |
| 3. Location of Net Contents | 23.8 lb | 4. Size(s) Ret | roil Container | 1 | - | ation of Label | Disectio | NDG |
| | Container | Lithog | 2 x 2.5 gal | Other | | On label | | |
| Paper glued Stenciled | | | | | | | | |
| | | | Section - I | / | | | | |
| 1. Contact Point (Complete | items directly below | for identificatio | n of individual to be | o contacted, if | nece | ssary, to proc | ess this | appijcation.) |
| Name Steve A. McMaster | | | | | | e Noွ (Include Area Code) 7-4670 (fax: 317-337-4649) | | |
| I certify that the state I acknowledge that ar both under applicable | ny knowlinglly false or | | all attachments the | | | rate and comp nprisonment o | ,,, | 6. Date Application Received ⇒ೈ(Stzmped) |
| 2. Signature | w Soy k | 1/ | 3. Title Regulatory Manage | ər | |)) | 3 3 3 3 3 3 3 | 2 222 3 222 2 |
| 4. Typed Name | 1 | | 5. Date | | • | | | , , , , , , , , , , , , , , , , , , , |
| Steve A. McMaster (samcmaster@dow.com) | | | Dec | ember 1, | 200 | 9 | | |



308/2E December 1, 2009



Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

TREFLAN E.C. WEED AND GRASS PREVENTER (A.I. TRIFLURALIN) EPA REGISTRATION NUMBER: 62719-97 NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICE 2007-4

Enclosed please find labeling for the notification action of Treflan® E.C. Weed and Grass Preventer specialty herbicide. The following change has been made by notification:

1. Storage and Disposal: Revised section per PR Notice 2007-4.

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the confidential statement of formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Contents of Submission

- Transmittal document (this letter)
- Application for Pesticide, EPA Form 8570-1
- Label entitled Treflan E.C. (T2E/Treflan E.C./Notif/12-01-09) (18 Pages plus Registration Notes) (1 Copy)

If you require further information, please contact Cindy Loy, Regulatory Specialist at (317) 337-4655.

Sincerely,

Steve A. McMaster Regulatory Leader (317) 337-4670 (317) 337-4649 (FAX)

Enclosures

[®]Trademark of Dow AgroSciences LLC

(Base label):

Treflan® E.C. Weed and Grass Preventer

Specialty Herbicide

A selective preemergence herbicide for the control of annual grasses and broadleaf weeds in nursery stock, ornamental trees, ornamental woody shrubs, ornamental groundcovers, roses, established flowers, vegetable gardens and under paved surfaces.

| Active Ingredient: | NOTIFICATION |
|---|----------------------|
| trifluralin: α , α , α -trifluoro-2,6-dinitro- N , | CAMP DE DATE SON MAS |
| <i>N</i> -dipropyl- <i>p</i> -toluidine | FEB - 5 2010 |
| Other Ingredients: | 57% |
| Total | 00% |

Contains petroleum distillates Contains 4 lb active ingredient per gallon

Keep Out of Reach of Children

CAUTION PRECAUCION

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals

Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selections chart.

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile, butyl, neoprene, or barrier laminate
- Shoes plus socks

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 wask FPE separately from other laundry.

Engineering Controls

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protections 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.

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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.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Note to physician: This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed endotracheal tube in place and immediate administration of activated charcoal, 6 to 8 heaping teaspoonfuls with water, should be considered. Treatment is otherwise symptomatic and supportive.

Environmental Hazards

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. 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 apply in a manner that will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

(Storage and Disposal for rigid containers 5 gal or less)

Storage and Disposal

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

Pesticide Storage: Store in original container only. Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or open flame. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste. 200000

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of or site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 secoกประวัติดนา rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty

the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for refillable rigid containers larger than 5 gal)

Storage and Disposal

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

Pesticide Storage: Store in original container only. Avoid freezing. Store above 40^oF. If frozen, poor weed control may result. Do not store near heat or open flame. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)

Storage and Disposal

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

Pesticide Storage: Store in original container only. Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or open flame. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

Page 4

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Avoid Freezing -- Store Above 40°F

EPA Reg. No. 62719-97

EPA Est. _____

[®]Trademark of Dow AgroSciences LLC Produced for Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

Net Contents ____

(Label booklet cover):

Treflan® E.C. Weed and Grass Preventer

Specialty Herbicide

A selective preemergence herbicide for the control of annual grasses and broadleaf weeds in nursery stock, ornamental trees, ornamental woody shrubs, ornamental groundcovers, roses, established flowers, vegetable gardens and under paved surfaces.

| Active Ingredient: | |
|---|-----|
| trifluralin: α , α , α -trifluoro-2,6-dinitro- N , | |
| N-dipropyl-p-toluidine | 43% |
| Other Ingredients: | 57% |
| Total | |
| Contains petroleum distillates | |
| Contains 4 lb active ingredient per gallon | |

Keep Out of Reach of Children

CAUTION PRECAUCION

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

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to inside of label booklet for additional precautionary information including Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

| Avoid Freezing | Store | Above | 40°F |
|----------------|-------|-------|------|
|----------------|-------|-------|------|

EPA Reg. No. 62719-97

| EPA | Est | |
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Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

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(Page 1 through end):

| Table of Contents | Page |
|--|------|
| Precautionary Statements | - |
| Hazards to Humans and Domestic Animals | - |
| Personal Protective Equipment (PPE) | - |
| Engineering Controls | - |
| Use Safety Recommendations | - |
| First Aid | - |
| Environmental Hazards | · - |
| Directions for Use | - |
| Agricultural Use Requirements | • |
| Non-Agricultural Use Requirements | - |
| Storage and Disposal | - |
| General Information | - |
| General Use Precautions | - |
| Grasses Controlled | • |
| Broadleaf Weeds Controlled | - |
| Ornamentals | - |
| Ornamental Groundcover Plantings | - |
| Approved Ornamental Species | - |
| Under Paved Surfaces | - |
| Vegetable Gardens | - |
| Terms and Conditions of Use | - |
| Warranty Disclaimer | - |
| Inherent Risks of Use | - |
| Limitation of Remedies | • |



Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes Moderate Eye Irritation • Harmful If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals

Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selections chart.

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- · Chemical-resistant gloves such as nitrile, butyl, neoprene, or barrier laminate
- · Shoes plus socks

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

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protections 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.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Note to physician: This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed

endotracheal tube in place and immediate administration of activated charcoal, 6 to 8 heaping teaspoonfuls with water, should be considered. Treatment is otherwise symptomatic and supportive.

Environmental Hazards

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. 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 apply in a manner that will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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 12 hours.

Exception: If the 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
- Chemical-resistant gloves such as nitrile, butyl, neoprene, or barrier laminate
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until sprays have dried.

Storage and Disposal

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

Pesticide Storage: Store in original container only. Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or open flame. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.



Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable containers 5 gallons or larger:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable containers 5 gallons or larger:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

General Information

Treflan[®] E.C. Weed and Grass Preventer specialty herbicide is a selective preemergence herbicide for the control of annual grasses and broadleaf weeds in nursery stock, ornamental trees, ornamental woody shrubs, ornamental groundcovers, roses, established flowers, vegetable gardens and under paved surfaces.

Treflan E.C. is incorporated (mixed) into the soil to provide long-lasting control of annual grasses and broadleaf weeds (see list below). Treflan E.C. controls weeds by killing their seeds as they germinate. It does not control established weeds.

Incorporation of Treflan E.C. helps assure effective weed control regardless of weather conditions and permits shallow cultivation, rotary hoeing and hand hoeing without reducing its weed control activity.

13/21

Treflan E.C. is recommended for use on a wide variety of vegetables, ornamental trees, ornamental groundcovers, shrubs, and flowers. The ornamental species on which Treflan E.C. can be used at recommended rates without damage include those listed in this booklet under Approved Ornamental Species.

General Use Precautions

Applied according to directions and under normal growing conditions, Treflan E.C. will not harm the treated crop. Over application may result in crop injury or a soil residue. Uneven application or improper soil incorporation of Treflan E.C. 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 E.C. Under these conditions, delayed crop development or reduced yields may result.

Do not aerially apply Treflan E.C.

Do not apply Treflan E.C. through any type of irrigation system.

Grasses Controlled

annual bluegrass junglerice
barnyardgrass (watergrass) panicum, fall
brachiaria panicum, Texas
bromegrass sandbur
cheat sprangletop
crabgrasses stinkgrass

foxtail woolly cupgrass iohnsongrass (from seed)

Broadleaf Weeds Controlled

carpetweed lambsquarters chickweed pigweed

Florida pusley puncturevine (western U.S. only)

goosefoot purslane Russian thistle kochia stinging nettle

Note: Treflan E.C. will not control certain resistant weeds such as cocklebur, velvetleaf, jimsonweed, ragweed, Venice mallow and nutgrass.

Ornamentals

Application Directions

Treflan E.C. is to be mixed with water and applied as spray before, or in the same operation as, soil incorporation. Apply in 5 to 40 gallons of water per acre (broadcast basis) using any properly calibrated low-pressure boom-type herbicide sprayer that will uniformly apply the spray. Pour the recommended amount of Treflan E.C. for the soil type into the spray tank during the filling operation and mix thoroughly before spraying. Do not apply more than the recommended amount.

Incorporation Directions

Treflan E.C. must be incorporated into the soil after application to prevent loss of its activity. Spraying and incorporation should be done in the same operation if possible. Incorporation may be delayed up to 24 hours after application. Variable weed control may result from delayed incorporation if Treflan E.C. is applied to a wet, warm soil surface or if the wind velocity is 10 mph or higher.

The machinery used for incorporation should break up large clods and mix Treflan E.C. thoroughly with the soil. The more thoroughly the Treflan E.C. is mixed with the soil, the more consistent the weed control will be.

Apply and incorporate Treflan E.C. prior to planting new nursery stock liners, ornamentals, trees and woody shrubs, and gladioli. (Gladioli corms less than 1 inch in diameter may be injured by pre-plant applications of Treflan E.C.) Treflan E.C. may also be applied to established plantings by using a directed spray to the soil between the rows and beneath the plants.

Incorporation Before Planting (Pre-Plant): Thorough incorporation may be achieved with the following:

- 1. P.T.O.-driven equipment (tillers, cultivators, hoes) set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil.
- 2. Double disc (or double disc with spike tooth harrow in tandem) set to cut 3 to 4 inches deep and operated in two different directions (cross disced) at 4 to 6 mph.
- 3. Mulch treader and other similar disc-type implements set to cut 3 to 4 inches deep and operated twice at 5 to 8 mph.
- 4. Rolling cultivators set to cut 2 to 4 inches deep and operated twice at 6 to 8 mph.
- 5. Bed conditioner (Do-All) set to cut 2 to 4 inches deep and operated at 4 to 6 mph.

Incorporation After Planting (Post-Plant): Incorporation may be achieved around established plants by using:

- 1. P.T.O.-driven equipment (tillers, cultivators, hoes) set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil.
- 2. Rolling cultivators set to cut 2 to 4 inches deep and operated twice at 6 to 8 mph. When incorporating Treflan E.C. in transplants, new liners, or established plants, the implement should be adjusted so that treated soil is thrown forward and around the plants in a row.

Clean cultivate area to be treated before application since Treflan E.C. will not control established weeds.

Shallow incorporation with implements set to cut less than 2 inches deep may result in erratic weed control. Do not use spike tooth or springtooth harrows alone for incorporation.

Broadcast (Overall) Application Rates for Soil Incorporation Only

| Coarse Soils | Sand and sandy loam 1 pint/acre (1/2 lb active) |
|--------------|--|
| Medium Soils | Loam, silt loam and silt 1 1/2 pint/acre (3/4 lb active) |
| Fine Soils | Clay loam, silty clay and clay 2 pint/acre (1 lb active) |

For band applications, use the following formula to figure the proportionate amount:

band width in inches row width in inches

recommended broadcast rate

amount to apply per acre on band

Treflan E.C. is not recommended on muck soils.

Ornamental Groundcover Plantings

Surface Application and Water Incorporation

Add Treflan E.C. to clean water in the spray tank during the filling operation. Agitate thoroughly prior to spraying. Apply in 5 to 40 gallons of water per acre using any properly calibrated low pressure herbicide

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sprayer that will uniformly apply the spray mixture. A one-half inch rain or its equivalent in sprinkler irrigation must be received within 24 hours or poor weed control will result.

Application Rates

Apply 1 gallon of Treflan E.C. per acre or 3 fl oz per 1000 sq ft of groundcover area.

Approved Ornamental Species

| Common Name | Scientific Name |
|-------------------------|-------------------------|
| Woody Shrubs | |
| andromeda, Japanese | Pieris japonica |
| arborvitae, American | Thuja occidentalis |
| azalea | Rhododendron spp. |
| barberry, Japanese | Berberis thunbergii |
| barberry, mento | Berberis mentorensis |
| boxwood, common | Buxus sempervirens |
| boxwood, harlands | Buxus harlandi |
| boxwood, littleleaf | Buxus microphylla |
| camellia, Japanese | Camellia japonica |
| camellia, sasanqua | Camellia sasangua |
| cherrylaurel, American | Prunus caroliniana |
| cinquefoil | Potentilla spp. |
| cleyera, Japanese | Cleyera japonica |
| cotoneaster, cranberry | Cotoneaster apiculata |
| cotoneaster, zabel | Cotoneaster zabelii |
| deutzia | Deutzia spp. |
| elaeagnus, silverberry | Elaeagnus pungens |
| euonymus, spreading | Euonymus kiautschovica |
| euonymus, winged | Euonymus alatus |
| euonymus, wintercreeper | Euonymus fortunei |
| firethorn | Pyracantha spp. |
| forsythia | Forsythia spp. |
| guava, pineapple | Feijoa sellowiana |
| hawthorn, India | Rhaphiolepis indica |
| hốlly | Ilex spp. |
| honeysuckle | Lonicera spp. |
| juniper | Juniperus spp. |
| laurel, mountain | Kalmia latifolia |
| lilac, common | Syringa vulgaris |
| mockorange | Philadelphus spp. |
| pittosporum, Japanese | Pittosporum tobira |
| privet | Ligustrum spp. |
| redcedar, eastern | Juniperus virginiana |
| rhododendron | Rhododendron spp. |
| spiraea, vanhoutte | Spiraea vanhouttei |
| viburnum | Viburnum spp. |
| weigela | Weigela spp. |
| willow | Salix spp. |
| yew, anglojap | Taxus media |
| yew, Japanese | Taxus cuspidata |
| yewpine | Podocarpus macrophyllus |
| • | |

Trees

almond apple, crabapple

Prunus dulcis Malus spp. apricot ash, white baldcypress

birch, European white

blackgum cherry

chestnut, Chinese

cottonwood

dogwood, flowering dogwood, kousa Douglas fir

fir, balsam hemlock, Canada honey locust larch, Japanese locust, black

maple, Norway maple, red maple, silver maple, sugar oak, pin oak, red oak, scarlet peach

pine, Austrian pine, eastern white pine, Japanese black

pine, loblolly pine, red pine, Scotch planetree, London

plum

redbud, eastern spruce, Colorado spruce, Norway spruce, white

sweetgum sycamore tuliptree walnut, black Prunus armeniaca Fraxinus americana Taxodium distichum Betula pendula Nyssa sylvatica Prunus spp.

Castanea mollissima Populus deltoides Cornus florida Cornus kousa

Pseudotsuga menziesii Abies balsemea Tsuga canadensis Gleditsia triacanthos Larix kaempferi

Robinia pseaudoacacia

Acer platanoides
Acer rubrum
Acer saccharinum
Acer saccharum
Quercus palustris
Quercus rubra
Quercus coccinea
Prunus persica
Pinus nigra
Pinus strobus
Pinus thunbergiana
Pinus taeda

Pinus resinosa
Pinus sylvestris
Platanus acerifolia
Prunus spp.
Cercis canadensis
Picea pungens
Picea abies
Picea glauca

Liquidambar styraciflua Platanus occidentalis Liriodendron tulipifera

Juglans nigra

Groundcover Plantings

aaronsbeard bellflower, Adriatic bellflower, poscharsky

ceanothus coreopsis cotoneaster coyote brush crown vetch

daisy, trailing African fern, asparagus

gazania

germander ice plant, largeleaf ivy, Algerian Hypericum calycinum Campanula elatines

Campanula poscharskyana

Ceanothus spp.
Coreopsis spp.
Cotoneaster spp.
Baccharis pilularis
Coronilla vana

Osteospermum fruticosum Asparagus densiflorus

Gazania spp.

Teucrium chamaedrys
Carpobrotus edulis
Hedera canariensis

ivy, English Hedera helix lily-of-the-nile Agapanthus spp. lilyturf, bigblue Liriope muscari marigold Tagetes spp. myoporum Myoporum laetum

plumbago, dwarf Ceratostigma plumbaginoides

rockrose Cistus spp.

rosemav Rosmarinus officinalis rupturewort Herniaria glabra snow-in-summer Cerastium tomentosum

speedwell Veronica spp. St. Johnswort Hypericum coris stonecrop (sedum) Sedum spp. strawberry, beach Fragaria chiloensis thrift Armeria maritima Verbena spp. verbena

wirevine, creeping Muehlenbeckia axillaris yarrow, woolly Achillea tomentosa zoysiagrass Zoysia tenufolia

Roses and Other Established Flowers

African daisy dianthus marigold shasta daisy aster (perennial) dusty miller marigold, cape snapdragon balsam floss flower morningglory snow-on-the-mountain blackeyed susan forget-me-not nasturtium stock four o'clock calendula nicotiana sunflower carnation gaillardia petunia sweet alyssum gladiolus phlox sweet pea centaurea, velvet golden glow pincushion flower sweet sultan chrysanthemum coreopsis impatiens poppy, California sweet william cornflower ixora portulaca vinca cosmos lobelia rose yarrow dahlia lupine salvia zinnia

Field Grown Roses

Treflan E.C. may be applied as an incorporated treatment at a rate of 2 quarts per acre to field grown roses to control annual weeds listed on this label. Apply to the soil surface in 5 to 40 gallons of finished spray and incorporate within 24 hours. Use a directed spray if application is made when roses are actively growing. Set incorporation equipment to avoid damage to root systems of established roses.

Do not apply more than 2 quarts (2 lb a.i.) per acre per year.

Under Paved Surfaces

Directions for Use and Site Preparation

Treflan E.C. should be used only where the soil to be treated has been prepared according to good construction practices. If rhizomes, stolons, tubers or other vegetative plant parts are present in the site, they should be removed by scalping with a grader blade to a depth sufficient to insure their complete removal.

Applications may be made after the final road bed is established or after the base rock has been added. Do not move soil after application of Treflan E.C. and do not apply Treflan E.C. to soil where asphalt is to be applied directly on top of the treated soil.

Paving should occur as soon as possible after application of Treflan E.C.

Page 15

Application Directions

Large Areas: Apply Treflan E.C. in sufficient water to ensure thorough wetting of the soil surface or penetration of the spray solution through the base rock layer. A minimum of 150 gallons per acre is recommended. Apply uniformly with a ground sprayer. Using a ground sprayer add Treflan E.C. to clean water during filling of spray tank. Agitate before spraying.

Small Areas: For treating small areas, a hand sprayer or sprinkling can may be used. Before application determine the amount of water and Treflan E.C. necessary to uniformly cover the area to be treated. Shake or stir the spray solution prior to application.

| Proper Amount of Treflan E.C. to Apply | | |
|--|-----------------|--|
| Small Areas 9 to 12 oz /1000 sq ft | | |
| Large Areas | 3 to 4 gal/acre | |

Vegetable Gardens

Soil Preparation

Crop Residues or Existing Weeds: Crop residues or existing weeds can interfere with the mixing of Treflan E.C. into the soil. A manageable level of such residues would allow the Treflan E.C. 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 application.

Soil Texture Guide

The amount of Treflan E.C. applied will vary with the soil texture to be treated. A fine textured soil will require more Treflan E.C. 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 | Soil Classification | | |
|----------------------|--|--|--|
| Coarse Soils (Light) | Sands, loamy sands, sandy loams | | |
| Medium Soils | Silt or loam | | |
| Fine Soils (Heavy) | Clay loams, silty clay loams, clays, silty clays | | |

Mixing Directions

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

Ground Application

Apply Treflan E.C. in 1 to 5 gallons of water per 1000 sq ft on a broadcast basis. Spray uniformly over the top of the soil surface to assure satisfactory weed control.

Incorporation Directions

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

Thoroughly mix Treflan E.C. 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 roto-tiller or rake should be used to mix Treflan E.C. to the desired 2 to 3 inch depth.

Incorporation Before Planting: Treflan E.C. must be mixed into the soil within 24 hours after application. Mix Treflan E.C. uniformly into the top 2 to 3 inches of the final seedbed.

Incorporation After Planting: Check specific crop incorporation directions after planting.



Cultivation After Planting

Soil treated with Treflan E.C. may be shallow cultivated without reducing the weed control activity of Treflan E.C. 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 E.C. per 1000 sq ft. Apply any time after January 1 when the soil can be worked and is suitable for good incorporation. Do not use Treflan E.C. on soils containing more than 10% organic matter. **Treflan E.C. should not be used in areas to be planted with sweet corn or direct seed cucurbits.**

For the Following Crops, Use the Rate Listed Below: Apply and incorporate Treflan E.C. before planting, at planting or immediately after planting unless otherwise indicated.

Broadcast Rates Per 1000 Sq Ft

| Soil Texture | Treflan E.C. (teaspoons) |
|--------------|-----------------------------|
| Coarse | 2 1/4 |
| Medium | 3 1/3 |
| Fine | 4 1/2 |

1. Asparagus - Established

Follow recommended soil preparation, application and incorporation procedures for Treflan E.C. Treflan E.C. can be applied to established asparagus as a single application. Apply Treflan E.C. to asparagus after ferns are removed but before spear emergence.

2. Carrot

- 3. Celery (Direct seeded and Transplant)
- 4. Cole Crops Transplant (Broccoli, Brussels Sprout, Cabbage and Cauliflower)
 Apply and incorporate prior to transplanting only.
- 5. Cucurbits Postplant Emerged (Cantaloupe, Cucumber and Watermelon)

Apply Treflan E.C. as a direct spray to the soil between the rows and beneath the plants which are in the 3 to 4 true leaf stage. After applying Treflan E.C. to the soil, incorporation is necessary to mix the chemical to the 2 to 3 inch desired depth. Optimum weed control will be achieved by moving a portion of the treated soil around the base of the established plants.

6. Okra

7. Pepper - Transplant

Apply and incorporate prior to transplanting only.

8. Potato - (All states Except Maine)

Apply and incorporate Treflan E.C. after planting, before emergence, or immediately following dragoff or after the potato plants have fully emerged. Mix Treflan E.C. 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.

9. Southern Pea (Before Planting Only)

10. Tomato - Transplant

Apply and incorporate prior to transplanting only.

For the Following Crops, Use the Rate Listed Below: Apply and incorporate Treflan E.C. before planting.



Broadcast Rates Per 1000 Sq Ft

| Soil Texture | Treflan E.C. (teaspoons) |
|--------------|-----------------------------|
| Coarse | 2 1/4 |
| Medium | 2 1/4 |
| Fine | 3 1/3 |

- 1. Beans (Lima Bean and Snap Bean)
- 2. Cole Crops Direct Seeded (Broccoli, Brussels Sprout, Cabbage and Cauliflower)
- 3. Greens (Turnip Greens, Collard, Kale and Mustard Greens)
- 4. Green Pea

Treflan E.C. Rate Conversion Chart

| Rate Per 1000 sq ft to Rate Per Acre | |
|--------------------------------------|---------------------------|
| Rate Per 1000 sq ft: (Teaspoons) | Rate Per Acre: (Pints) |
| 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 steps.

- 1. Fill the sprayer full of clean water.
- 2. Spray as you would normally applying 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 E.C. needed to treat that size area.
- 5. Refer to the mixing directions on the product label.

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Page 18

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