

62719-97

1-29-1999

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Please read instructions on reverse before completing form.

Form Approved OMB No. 2070-0660. Approval expires 05-31-98



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

258713

## Application for Pesticide - Section I

2065-2

1. Company/Product Number Dow AgroSciences/62719-97	2. EPA Product Manager Joanne I. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dow AgroSciences/Treflan E.C. (Weed and Grass Preventer)	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in Composition and labeling to: EPA Reg. No. Product Name	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated	NOTIFICATION JAN 29 1999
<input type="checkbox"/> Resubmission in response to Agency letter dated	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other- Explain below.	

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

The following changes were made to the enclosed label: Correction of Precautionary Statements and Ag Use Requirements sections. Consistent with Category III eye irritation, protective eyewear has been deleted from PPE for applicators and other handlers and from PPE required for early entry into treated areas.

## Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No Certification must be submitted	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt. No. per container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify: _____)
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

## Section - IV

1. Contact Point /Complete items directly below for identification of individual to be contacted, if necessary, to process this application			
Name Larry E. Hammond	Title Regulatory Manager	Telephone No. (Include Area Code) (317) 254-4661	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowing false or misleading statement may be punishable by fine or imprisonment both under applicable law.			8. Date Application Received (Stamped)
2. Signature Larry E. Hammond	3. Title Regulatory Manager		
4. Typed Name Larry E. Hammond	5. Date January 22, 1999		

\* Trademark of Dow AgroSciences LLC

**Treflan\* E.C.**  
**(Weed and Grass Preventer)**  
EPA Reg. No. 62719-97

**Registration Notes:**

Current label text based on EPA accepted text dated December 29, 1998.

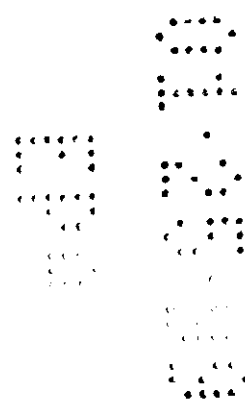
**Proposed Changes by Notification:**

1. Correction of Precautionary Statements and Ag Use Requirements Sections: Consistent with Cat III eye irritation, protective eyewear has been deleted from PPE for applicators and other handlers and from PPE required for early entry into treated areas.

[Editor's note: Deleted text denoted by strike-through.]

\*Trademark of Dow AgroSciences LLC

**NOTIFICATION**  
**JAN 29 1999**



(Base label):

(Logo) Dow AgroSciences LLC

**Treflan\* E.C.****Weed and Grass Preventer**

**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:  $\alpha, \alpha, \alpha$ -trifluoro-2,6-dinitro-*N*,*N*-dipropyl-*p*-toluidine ..... 43%**Inert Ingredients:** ..... 57%**Total** ..... 100%

Contains petroleum distillates.

Contains 4 pounds 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:**

- o Long-sleeved shirt and long pants
- o Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, or Barrier Laminate
- o Shoes plus socks
- o ~~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.

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### Engineering Controls Statements

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:

- o Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- o Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- o 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:** Flush eyes with plenty of water. Call a physician if irritation persists.

**If swallowed:** Call a physician or poison control center. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.

**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately. May pose an aspiration pneumonia hazard.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**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 which 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.

Refer to label booklet for Directions for Use including Storage and Disposal.

**Notice:** Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

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

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

EPA Reg. No. 62719-97

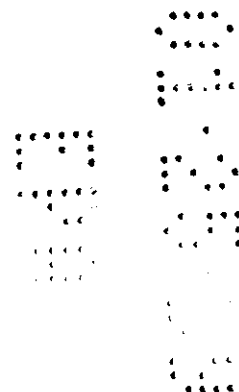
EPA Est. 1471-IN-2

\*Trademark of Dow AgroSciences LLC

**Dow AgroSciences LLC o Indianapolis, IN 46268 U.S.A.**

**Specialty Herbicide**

**Net Contents XXX**



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(Datapack cover):

(Logo) Dow AgroSciences LLC

**Treflan\* E.C.****Weed and Grass Preventer**

**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:  $\alpha, \alpha, \alpha$ -trifluoro-2,6-dinitro-*N*,*N*-dipropyl-*p*-toluidine ..... 43%

Inert Ingredients: ..... 57%

Total ..... 100%

Contains petroleum distillates.

Contains 4 pounds active ingredient per gallon.

**Keep Out of Reach of Children****CAUTION      PRECAUTION**

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 Personal Protective Equipment (PPE), Engineering Controls Statements and User Safety Recommendations, and Directions for Use including Storage and Disposal.**

**Notice:** Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

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

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

EPA Reg. No. 62719-97

\*Trademark of Dow AgroSciences LLC

Dow AgroSciences LLC o Indianapolis, IN 46268 U.S.A.

**Specialty Herbicide**

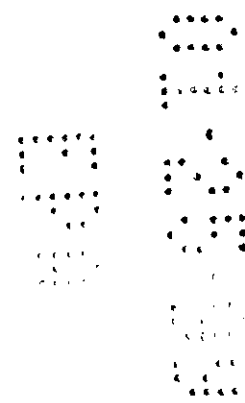
EPA Est. 1471-IN-2

Net Contents XXX

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**Precautionary Statements**

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**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:**

- o Long-sleeved shirt and long pants
- o Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, or Barrier Laminate
- o Shoes plus socks
- o 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 Statements**

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:

- o Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- o Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- o 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:** Flush eyes with plenty of water. Call a physician if irritation persists.

**If swallowed:** Call a physician or poison control center. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.

**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately. May pose an aspiration pneumonia hazard.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**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 which 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.

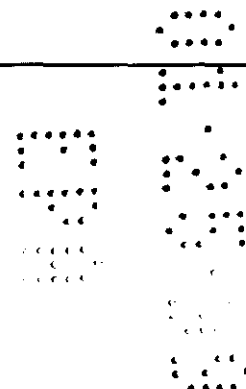
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- o Coveralls
- o Chemical-resistant gloves such as Nitrile, Butyl, Neoprene, or Barrier Laminate
- o Shoes plus socks
- o ~~Protective eyewear~~

### 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.



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### Storage and Disposal

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

**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.

**Plastic Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Metal Container Disposal:** Triple rinse (or equivalent). Then offer for recycling, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Bulk/Mini-bulk Tank Cleaning:** Triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

### General Information

Treflan\* E.C. 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.

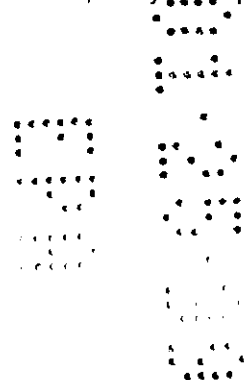
Treflan E.C. is recommended for use on a wide variety of vegetables, ornamental trees, ornamental groundcovers, shrubs, and flowers. The ornamental species on which Treflan E.C. can be used at recommended rates without damage include those listed in this booklet under "Approved Ornamental Species".

### 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.**



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### Grasses Controlled by Treflan E.C.

Annual bluegrass  
Barnyardgrass (Watergrass)  
Brachiaria  
Bromegrass  
Cheat  
Crabgrasses  
Foxtail  
Johnsongrass (from seed)  
Junglerice  
Panicum, fall  
Panicum, Texas  
Sandbur  
Sprangletop  
Stinkgrass  
Woolly cupgrass

### Broadleaf Weeds Controlled by Treflan E.C.

Carpetweed  
Chickweed  
Florida pusley  
Goosefoot  
Knotweed  
Kochia  
Lambsquarters  
Pigweed  
Puncturevine (Western U. S. only)  
Purslane  
Russian thistle  
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 your 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.

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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.

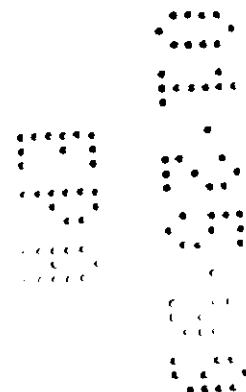
#### **Broadcast (Overall) Application Rates for Soil Incorporation Only**

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:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{recommended broadcast rate} = \text{amount to apply per acre on band}$$

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



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## 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 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 ounces per 1,000 sq ft of groundcover area.

## Approved Ornamental Species

### Woody Shrubs

Common Name	Scientific Name
Andromeda, Japanese	<i>Pieris japonica</i>
Arborvitae, American	<i>Thuja occidentalis</i>
Azalea	<i>Rhododendron</i> spp.
Barberry, Japanese	<i>Berberis thunbergii</i>
Barberry, mento	<i>Berberis mentorensis</i>
Boxwood, common	<i>Buxus sempervirens</i>
Boxwood, harlands	<i>Buxus harlandi</i>
Boxwood, littleleaf	<i>Buxus microphylla</i>
Camellia, Japanese	<i>Camellia japonica</i>
Camellia, sasanqua	<i>Camellia sasanqua</i>
Cherry laurel, American	<i>Prunus caroliniana</i>
Cinquefoil	<i>Potentilla</i> spp.
Cleyera, Japanese	<i>Cleyera japonica</i>
Cotoneaster, cranberry	<i>Cotoneaster apiculata</i>
Cotoneaster, zabel	<i>Cotoneaster zabelii</i>
Deutzia	<i>Deutzia</i> spp.
Elaeagnus, silverberry	<i>Elaeagnus pungens</i>
Euonymus, spreading	<i>Euonymus kiautschovica</i>
Euonymus, winged	<i>Euonymus alatus</i>
Euonymus, wintercreeper	<i>Euonymus fortunei</i>
Firethorn	<i>Pyracantha</i> spp.
Forsythia	<i>Forsythia</i> spp.
Guava, pineapple	<i>Feijoa sellowiana</i>
Hawthorn, India	<i>Raphiolepis indica</i>
Holly	<i>Ilex</i> spp.
Honeysuckle	<i>Lonicera</i> spp.
Juniper	<i>Juniperus</i> spp.
Laurel, mountain	<i>Kalmia latifolia</i>
Lilac, common	<i>Syringa vulgaris</i>
Mockorange	<i>Philadelphus</i> spp.
Pittosporum, Japanese	<i>Pittosporum tobira</i>
Privet	<i>Ligustrum</i> spp.
Redcedar, eastern	<i>Juniperus virginiana</i>
Rhododendron	<i>Rhododendron</i> spp.
Spiraea, vanhoutte	<i>Spiraea vanhouttei</i>
Viburnum	<i>Viburnum</i> spp.
Weigela	<i>Weigela</i> spp.

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Willow	<i>Salix</i> spp.
Yew, anglojap	<i>Taxus media</i>
Yew, Japanese	<i>Taxus cuspidata</i>
Yewpine	<i>Podocarpus macrophyllus</i>

## Trees

Common Name	Scientific Name
Almond	<i>Prunus dulcis</i>
Apple, Crabapple	<i>Malus</i> spp.
Apricot	<i>Prunus armeniaca</i>
Ash, white	<i>Fraxinus americana</i>
Baldcypress	<i>Taxodium distichum</i>
Birch, european white	<i>Betula pendula</i>
Blackgum	<i>Nyssa sylvatica</i>
Cherry	<i>Prunus</i> spp.
Chestnut, Chinese	<i>Castanea mollissima</i>
Cottonwood	<i>Populus deltoides</i>
Dogwood, flowering	<i>Cornus florida</i>
Dogwood, kousa	<i>Cornus kousa</i>
Douglas fir	<i>Pseudotsuga menziesii</i>
Fir, balsam	<i>Abies balsamea</i>
Hemlock, Canada	<i>Tsuga canadensis</i>
Honey locust	<i>Gleditsia triacanthos</i>
Larch, Japanese	<i>Larix kaempferi</i>
Locust, black	<i>Robinia pseudoacacia</i>
Maple, Norway	<i>Acer platanoides</i>
Maple, red	<i>Acer rubrum</i>
Maple, silver	<i>Acer saccharinum</i>
Maple, sugar	<i>Acer saccharum</i>
Oak, pin	<i>Quercus palustris</i>
Oak, red	<i>Quercus rubra</i>
Oak, scarlet	<i>Quercus coccinea</i>
Peach	<i>Prunus persica</i>
Pine, Austrian	<i>Pinus nigra</i>
Pine, eastern white	<i>Pinus strobus</i>
Pine, Japanese black	<i>Pinus thunbergiana</i>
Pine, loblolly	<i>Pinus taeda</i>
Pine, red	<i>Pinus resinosa</i>
Pine, scotch	<i>Pinus sylvestris</i>
Planetree, London	<i>Platanus acerifolia</i>
Plum	<i>Prunus</i> spp.
Redbud, eastern	<i>Cercis canadensis</i>
Spruce, colorado	<i>Picea pungens</i>
Spruce, Norway	<i>Picea abies</i>
Spruce, white	<i>Picea glauca</i>
Sweetgum	<i>Liquidambar styraciflua</i>
Sycamore	<i>Platanus occidentalis</i>
Tuliptree	<i>Liriodendron tulipifera</i>
Walnut, black	<i>Juglans nigra</i>

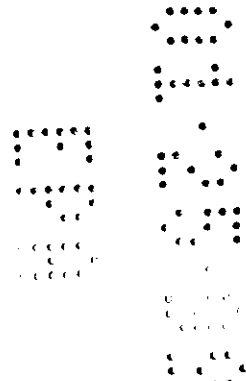
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## Groundcover Plantings

Common Name	Scientific Name
Aaronsbeard	<i>Hypericum calycinum</i>
Bellflower, adriatic	<i>Campanula elatines</i>
Bellflower, poscharsky	<i>Campanula poscharskyana</i>
Ceanothus	<i>Ceanothus</i> spp.
Coreopsis	<i>Coreopsis</i> spp.
Cotoneaster	<i>Cotoneaster</i> spp.
Coyote brush	<i>Baccharis pilularis</i>
Crown vetch	<i>Coronilla vana</i>
Daisy, trailing African	<i>Osteospermum fruticosum</i>
Fern, asparagus	<i>Asparagus densiflorus</i>
Gazania	<i>Gazania</i> spp.
Germander	<i>Teucrium chamaedrys</i>
Ice plant, largeleaf	<i>Carpobrotus edulis</i>
Ivy, algerian	<i>Hedera canariensis</i>
Ivy, English	<i>Hedera helix</i>
Lily-of-the-Nile	<i>Agapanthus</i> spp.
Lilyturf, bigblue	<i>Liriope muscari</i>
Marigold	<i>Tagetes</i> spp.
Myoporum	<i>Myoporum laetum</i>
Plumbago, dwarf	<i>Ceratostigma plumbaginoides</i>
Rockrose	<i>Cistus</i> spp.
Rosemay	<i>Rosmarinus officinalis</i>
Rupturewort	<i>Herniaria glabra</i>
Snow-in-Summer	<i>Cerastium tomentosum</i>
Speedwell	<i>Veronica</i> spp.
St. Johnswort	<i>Hypericum coris</i>
Stonecrop (Sedum)	<i>Sedum</i> spp.
Strawberry, beach	<i>Fragaria chiloensis</i>
Thrift	<i>Armeria maritima</i>
Verbena	<i>Verbena</i> spp.
Wirevine, creeping	<i>Muehlenbeckia axillaris</i>
Yarrow, woolly	<i>Achillea tomentosa</i>
Zoysiagrass	<i>Zoysia tenuifolia</i>

## Roses and Other Established Flowers

African daisy	Marigold
Aster (perennial)	Marigold, cape
Balsam	Morningglory
Blackeyed Susan	Nasturtium
Calendula	Nicotiana
Carnation	Petunia
Centaurea, velvet	Phlox
Chrysanthemum	Pincushion flower
Coreopsis	Poppy, California
Cornflower	Portulaca
Cosmos	Rose
Dahlia	Salvia
Dianthus	Shasta daisy
Dusty Miller	Snapdragon



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Floss flower	Snow-on-the-Mountain
Forget-me-not	Stock
Four o'Clock	Sunflower
Gaillardia	Sweet alyssum
Gladiolus	Sweet pea
Golden glow	Sweet sultan
Impatiens	Sweet William
Ixora	Vinca
Lobelia	Yarrow
Lupine	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 area 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 should be made only when the final grade is established or after additions of base rock. Do not move soils following application of Treflan E.C. and do not apply Treflan E.C. to areas where asphalt is to be placed directly on top of soil.

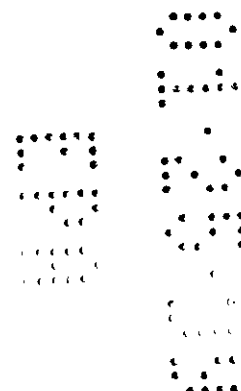
Paving should occur as soon as possible after application of Treflan E.C.

#### Application Directions

**Large Areas:** Apply Treflan E.C. in sufficient water to insure 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 with any sprayer that will apply the spray uniformly. Add the recommended amount of Treflan E.C. to clean water in the spray tank during the filling operation. Agitate before spraying.

**Small Areas:** For treating small areas, a tank type 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.

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





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## 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. you apply 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
Course 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 square feet 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 the 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. You should mix the 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 square feet. Apply any time after January 1 when the soil can be worked and is suitable for good incorporation. Do not use.

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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 Crop Grouping, 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 1,000 Square Feet**

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. See next section for direct seeded.

**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 2-3 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.

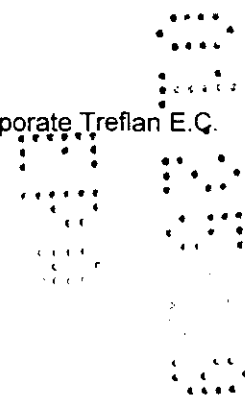
Mix Treflan E.C. into the soil so a uniform layer of treated soil covers the bed. Concentrated areas of chemical in the bed may retard potato emergence and cause stem brittleness. If potato plants are already emerged when cultivating, do not totally cover foliage with treated soil. Do not damage potato 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 Crop Grouping, Use the Rate Listed Below:** Apply and incorporate Treflan E.C. before planting.



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**Broadcast Rates Per 1,000 Square Feet**

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)  
See above section for transplant.
3. Greens - (Turnip Greens, Collard, Kale and Mustard Greens)
4. Green Pea

**Treflan E.C. Rate Conversion Chart**

Rate Per 1,000 sq ft to Rate Per Acre	
Rate Per 1,000 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 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 E.C. needed to treat that size area.
5. Refer to the mixing directions on the Treflan E.C. product label.

**Warranty Disclaimer**

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

**Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

**Limitation of Remedies**

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

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1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

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