

ACCEPTED
JAN 5 1988

1471-65

ELANCO ID 5902



Net Contents 1 Quart - Gallon

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

Active Ingredient
Trifluralin (a.e.e.-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine) 44.5%
Inert Ingredients 55.5%
Contains 4.45 pounds active ingredient per gallon
"Treflan" is the registered trademark for Elanco Products Company
US Patent No. 31227

4 pounds active ingredient per gallon (trifluralin, Elanco)

Keep Out of Reach of Children.

WARNING

See back of container for additional precautionary statements.

EPA Reg No. 1471-65
EPA Est. 1183-NB-1
WU 0860 AMX

FN 0789

152****/EC**48/LABELS/US/FO789/248

Directions for Use:

Read All Directions Carefully Before Applying

See attached literature for complete directions for use.
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

Do not get in eyes. Avoid contact with skin and clothing. Harmful if swallowed or absorbed through the skin. Treflan E.C. may cause skin sensitization reactions in certain individuals. Use eye protection and protective clothing such as coveralls, a long sleeved shirt, and impervious gloves when handling this product. 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 Hazards

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

STORAGE AND DISPOSAL

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

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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.

~~Elanco Products Company makes no warranties, express or implied, concerning this product or its use, which extend beyond the description on the label or in literature furnished by Elanco Products Company, and its statements made concerning the product apply only when used as directed. Elanco Products Company does not warrant its products or services in relation to any use of the product in combination or sequential use with any other product not approved or recommended by Elanco Products Company. If used in a combination or sequential use not recommended by Elanco Products Company, the liability of Elanco Products Company shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the Elanco product in such combination or sequential use.~~

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ELANCO

ID 5902



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Contains 4 pounds active ingredient per gallon.

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U.S. Patent No. Re. 31227
EPA Reg. No. 1471-65

FN 0789-----

Elanco Products Company
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

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Literature revised September 4, 1985
PI 2445 AMP

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Precautionary Statements

Keep Out of Reach of Children.

Hazards to Humans and Domestic Animals WARNING

Do not get in eyes. Avoid contact with skin and clothing. Harmful if swallowed or absorbed through the skin. Trellan Emulsifiable Concentrate may cause skin sensitization reactions in certain individuals. Use eye protection and protective clothing such as coveralls, a long sleeved shirt, and impermeable gloves when handling this product.

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 Hazards

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

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STORAGE AND DISPOSAL

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

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Waste 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.

Directions for Use

Trellan® E.C. is a selective preemergence herbicide ~~for use in ornamentals~~ for the control of annual grasses and broadleaf weeds in nursery stock, ornamental trees, ornamental woody shrubs, ornamental groundcover, ~~gladiolus~~, roses, established flowers, and under paved surfaces.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

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SPECIAL PRECAUTION:

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

vegetable gardens

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Weeds and Grasses Controlled by Trellan

Grasses

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

Broadleaf Weeds

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

Note: Trellan will not control certain resistant weeds such as Cocklebur, Velvetleaf, Jimsonweed, Ragweed, Venice Mallow and Nutgrass.

General Directions

Trellan is a preemergence herbicide which is incorporated (mixed) into the soil to provide long-lasting control of annual grasses and broadleaf weeds (see above list). Trellan controls weeds by killing their seeds as they germinate. It does not control established weeds.

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

Trellan is recommended for use on a wide variety of ~~vegetables,~~ ornamental trees, ornamental ~~groundcover,~~ shrubs, and flowers. The ornamental species on which Trellan can be used at recommended rates without damage include those listed in this booklet. Refer to the index for the page numbers of these lists.

Application Directions

Trellan Emulsifiable Concentrate is to be mixed with water and applied as a 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 Trellan 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

Trellan 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 4 hours after application. Variable weed control may result from delayed incorporation if Trellan is applied to a

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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 Trellan thoroughly with the soil. The more thoroughly the Trellan is mixed with the soil, the more consistent the weed control will be.

Apply and incorporate Trellan 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 Trellan). Trellan may also be applied to established plantings by using a directed spray to the soil between the rows and beneath the plants.

Broadcast (Overall) Application Rates for Soil Incorporation Only

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

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

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

Trellan is not recommended on muck soils.

Incorporation before planting (pre-plant): Thorough incorporation may be achieved with the following: *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; *double disc* (or double disc with spiketooth harrow in tandem) set to cut 3 to 4 inches deep and operated in two different directions (cross disced) at 4 to 6 mph.; *mulch treader* and other similar disc-type implements set to cut 3 to 4 inches deep and operated twice at 5 to 8 mph.; *rolling cultivators* set to cut 2 to 4 inches deep and operated twice at 6 to 8 mph.; or a *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 *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, or *rolling cultivators* set to cut 2 to 4 inches deep and operated twice at 6 to 8 mph. When incorporating Trellan in transplants, new liners, or established plants, the implement should be adjusted so that treated soil is thrown toward and around the plants in the row.

Clean cultivate area to be treated before application since Trellan will not control established weeds.

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

Surface Application and Water Incorporation to Ornamental Groundcover Plantings

Add Trellan 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—Groundcovers Only

Apply 1 gallon of Trellan per acre or 3 ounces per 1,000 sq ft of groundcover area.

UNDER PAVED SURFACES—~~Under Paved Surfaces~~

Directions For Use and Site Preparation: Trellan 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 final grade is established or after additions of base rock. Do not move soils following Trellan application and do not apply Trellan to areas where asphalt is to be laid directly on top of soil.

Paving should follow Trellan applications as soon as possible.

Application Directions: Large Areas—Apply Trellan 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 Trellan 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 Trellan necessary to uniformly cover the area to be treated. Shake or stir the spray solution prior to application.

The Proper Amount of Trellan E.C. to Apply

Apply the following amount of Trellan		
	Ounces Per 1000 Sq Ft	Gallons Per Acre
Trellan	9 to 12 ounces.	3 to 4 gallons

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Species

Ornamental Woody Shrubs

Scientific Name	Common Name
<i>Berberis mentorensis</i>	Barberry
<i>Berberis Thunbergii</i>	Japanese Barberry
<i>Buxus harlandii</i>	Harlandii Boxwood
<i>Buxus microphylla</i>	Boxwood
<i>Buxus sempervirens</i>	Common Boxwood
<i>Camellia japonica</i>	Camellia
<i>Camellia Sasanqua</i>	Sasanqua Camellia
<i>Cleyera japonica</i>	Sakaki
<i>Cotoneaster apiculata</i>	Cotoneaster
<i>Cotoneaster Zabelii</i>	Cotoneaster
<i>Deutzia</i>	Deutzia
<i>Elaeagnus pungens</i>	Elaeagnus
<i>Euonymus alatus</i>	Euonymus
<i>Euonymus Fortunei</i>	Euonymus
<i>Euonymus newport</i>	Euonymus
<i>Feljoa Sellowiana</i>	Pineapple Guava
<i>Forsythia</i>	Forsythia (Golden Bells)
<i>Ilex crenata</i>	Japanese Holly
<i>Ilex hetzi</i>	Holly
<i>Juniperus chinensis</i>	Juniper
<i>Juniperus conferta</i>	Shore Juniper
<i>Juniperus virginiana</i>	Red Cedar
<i>Kalmia latifolia</i>	Mountain Laurel
<i>Ligustrum erectum</i>	Privet
<i>Ligustrum japonicum</i>	Privet
<i>Ligustrum odoratissimum</i>	Privet
<i>Ligustrum ovalifolium</i>	California Privet

<i>Lonicera</i>	Honeysuckle
<i>Philadelphus Lemoinei</i>	Mock-Orange
<i>Pieris japonica</i>	Fetterbush
<i>Pittosporum Tobira</i>	Robira
<i>Podocarpum macrophylla</i>	Yew Pine
<i>Potentilla</i>	Cinquefoil
<i>Prunus caroliniana</i>	American Cherry-Laurel
<i>Pyracantha</i>	Firethorn
<i>Raphiolepis indica</i>	India Hawthorn
<i>Rhododendron indicum</i>	Azalea
<i>Rhododendron obtusum</i>	Rhododendron
<i>Salix</i>	Willow
<i>Spiraea vanhouttei</i>	Spiraea
<i>Syringa vulgaris</i>	Common Lilac
<i>Taxus cuspidata</i>	Japanese Yew
<i>Taxus media</i>	Yew
<i>Thuja occidentalis</i>	American Arborvitae
<i>Viburnum odoratissimum</i>	Sweet Viburnum
<i>Viburnum suspensum</i>	Sandankwa Viburnum
<i>Viburnum tomentosum</i>	Doublefile Viburnum
<i>Viburnum wrightii</i>	Viburnum
<i>Weigela</i>	Weigela, Bristol Ruby

Ornamental Trees

Scientific Name	Common Name
<i>Abies balsamea</i>	Balsam Fir
<i>Acer platanoides</i>	Norway Maple
<i>Acer rubrum</i>	Red Maple
<i>Acer saccharinum</i>	Silver Maple
<i>Acer saccharum</i>	Sugar Maple
<i>Betula pendula</i> var. <i>laciniala</i>	European White Birch

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<i>Castanea mollissima</i>	Chinese Chestnut
<i>Cercis canadensis</i>	Redbud
<i>Cornus florida</i>	Flowering Dogwood
<i>Cornus Kousa</i>	Kousa Dogwood
<i>Fraxinus americana</i>	White Ash
<i>Gleditsia triacanthos</i>	Honey Locust
<i>Juglans nigra</i>	Black Walnut
<i>Larix leptolepis</i>	Japanese Larch
<i>Liquidambar styracillua</i>	Sweetgum
<i>Liriodendron tulipifera</i>	Tulip Tree
<i>Malus</i> sp.	Apple
<i>Nyssa sylvatica</i>	Black Gum
<i>Picea Abies</i>	Norway Spruce
<i>Picea glauca</i>	White Spruce
<i>Picea pungens</i>	Colorado Blue Spruce
<i>Pinus nigra</i>	Austrian Pine
<i>Pinus resinosa</i>	Red Pine
<i>Pinus Strobus</i>	White Pine
<i>Pinus sylvestris</i>	Scotch Pine
<i>Pinus taeda</i>	Loblolly Pine
<i>Pinus Thunbergii</i>	Japanese Black Pine
<i>Platanus acerifolia</i>	London Plane-Tree
<i>Platanus occidentalis</i>	Sycamore
<i>Populus deltoides</i>	Cottonwood
<i>Prunus</i> sp.	Stone-Fruits
<i>Pseudotsuga taxifolia</i>	Douglas Fir
<i>Quercus coccinea</i>	Scarlet Oak
<i>Quercus palustris</i>	Pin Oak
<i>Quercus rubra</i>	Red Oak
<i>Robinia pseudoacacia</i>	Black Locust
<i>Taxodium distichum</i>	Bald Cypress
<i>Tsuga canadensis</i>	Canada Hemlock

~~Ornamental Groundcover Plantings~~

Scientific Name	Common Name
<i>Agapanthus</i>	Dwarf Peter Pan
<i>Armeria vulgaris</i>	Thrift - Sea Pink
<i>Achillea tomentosa</i>	Woolly Yarrow
<i>Asparagus densiflorus</i>	Asparagus
<i>Baccharis pilularis</i>	Dwarf Coyote Brush
<i>Campanula garganica</i>	Bellflower
<i>Campanula</i>	
<i>Poscharskyana</i>	Bellflower
<i>Ceanothus gloriosus</i>	Ceanothus
<i>Cerastium tomentosum</i>	Snow-in-Summer
<i>Ceratostigma</i>	
<i>plumbaginoides</i>	Bunge
<i>Cistus</i> sp.	Rock Rose
<i>Coreopsis</i> sp.	Tickseed
<i>Coronilla varia</i>	Crown Vetch
<i>Cotoneaster</i>	Cotoneaster
<i>Fragaria chiloensis</i>	Strawberry
<i>Gazania</i> sp.	Copper King Gazania
<i>Gazania</i> sp.	Gold Rush Gazania
<i>Gazania</i> sp.	New Orange Gazania
<i>Gazania</i> sp.	Feasta Red Gazania
<i>Gazania</i> sp.	Bronze Orange
	Sunrise Gazania
<i>Gazania leucolaena</i>	Gazania
<i>Gazania sangalo</i>	Gazania
<i>Hedera canariensis</i>	Algerian Ivy
<i>Hedera helix</i>	Needlepoint Ivy
<i>Hedera helix</i>	California Ivy
<i>Herniaria glabra</i>	Rupture Wort

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<i>Hypericum</i> sp.	St.-John's-Wort
<i>Hypericum calycinum</i>	Rose-of-Sharon
<i>Hypericum conis</i>	St.-John's-Wort
<i>Liriope Muscari</i>	Big Blue Lilyturf
<i>Mesembryanthemum edentulum</i>	Ice Plant
<i>Muehlenbeckia axillaris</i>	Wire Plant
<i>Myoporum</i> sp.	Myoporum
<i>Myoporum laetum</i>	Myoporum
<i>Osteospermum</i> sp.	Trailing African Daisy
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Rosmarinus</i> sp.	Rosemary
<i>Sedum</i> sp.	Utah Sedum
<i>Sedum</i> sp.	Acre Sedum
<i>Sedum confusum</i>	Sedum
<i>Sedum guatemalense</i>	Sedum
<i>Sedum musaneuse</i>	Sedum
<i>Tagetes</i>	Marigold
<i>Teucrium Chamaedrys</i>	Germander
<i>Verbena</i> sp.	Verbena
<i>Verbena</i> sp.	Hybrid White Verbena
<i>Verbena</i> sp.	Hybrid Apple Blossom Verbena
<i>Verbena</i> sp.	Special Purple Verbena
<i>Verbena peruviana</i>	Verbena
<i>Veronica</i> sp.	Speedwell
<i>Zoysia tenuifolia</i>	Mascarene grass

Roses and Other Established Flowers

Achillea	Lupinus
Ageratum	Marigold

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Arctotis	Morning Glory
Aster	Nasturtium
Balsam	Nicotiana
Calendula	Periwinkle
California Poppy	Petunia
Callopsis	Phlox
Carnation	Portulaca
Centaurea	Rudbeckia
Chrysanthemums	Salvia
Cosmos	Scabiosa
Dahlia	Shasta Daisy
Dianthus	Snapdragon
Dimorthea	Stock
Forget-me-not	Snow on the mountain
Four O'Clocks	Sunflower
Gaillardia	Sweet Alyssum
Gladiolus	Sweet pea
Ixora	Sweet William
Lobelia	Zinnia

~~Weed Control in Home~~
~~Vegetable Gardens~~

WEED CONTROL IN HOME
VEGETABLE GARDENS

Soil Preparation

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

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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.

	Coarse Soils (Light)	Medium Soils	Fine Soils (Heavy)
Soil Texture	Sands, loamy sands and sandy loams.	Silt or loam	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. Close sprayer and shake well to mix Treflan. Finish filling sprayer and shake occasionally to keep Treflan mixed in the tank.

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.

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Incorporation Directions

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 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.

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Crop Recommendations

These recommendations are given as broadcast rates of Trellan 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 Trellan on soils containing more than 10% organic matter. Trellan 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 Trellan before planting, at planting or immediately after planting unless otherwise indicated.

Broadcast Rates Per 1,000 Square Feet

Trellan E.C.	
Soil Texture	Teaspoons
Coarse	2 1/4
Medium	3 1/3
Fine	4 1/2

Asparagus—Established

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

Trellan can be applied to established asparagus as a single application. Apply Trellan 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 Trellan as a direct spray to the soil between the rows and beneath plants which are in the 3 to 4 true leaf stage.

After applying Trellan 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 Trellan after planting, before emergence, or immediately following dragoff or after the potato plants have fully emerged.

Mix Trellan 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 Trellan before planting.

Broadcast Rates Per 1,000 Square Feet

Trellan E.C.	
Soil Texture	Teaspoons
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

Trellan E.C. Rate Conversion Chart

Rate Per Thousand Square Feet to Rate Per Acre	
Rate Per 1,000 Square Feet Is: 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 Trellan needed to treat that size area.
5. Refer to the mixing directions on the Trellan product label.

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Special Precautions

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

Inherent Risks of Use

Failure to carefully follow the directions for use of Trellan, 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.

causes substantial but temporary eye injury. Causes skin irritation. Harmful if swallowed, inhaled, or absorbed through the skin. TREFLAN E.C. may cause skin sensitization reactions in certain individuals. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist. Wear goggles, face shield or safety glasses, and protective clothing, such as, coveralls, a long-sleeved shirt, and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Statements of Practical Treatment

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See an ophthalmologist immediately.

If swallowed: Call a physician or Poison Control Center. This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. If this happens and the patient is conscious, immediately administer activated charcoal (six to eight heaping teaspoonfuls) with water and get medical attention.

If on skin: Immediately wash with plenty of soap and water. Get medical attention if irritation develops.

If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and call a physician.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water by cleaning of equipment or disposal of waste.

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Disclaimer of Warranties

Elanco Products Company makes no warranties concerning this product or its use, which extend beyond the description on the label. All other warranties, expressed or implied, including but not limited to, any implied warranties or merchantability and fitness for a particular purpose, are disclaimed. All statements concerning this product apply only when used as directed. This disclaimer of warranties does not apply where prohibited by operation of law.

Limitation of Damages

The liability of Elanco Products Company, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the return of the amount of the purchase price of this product and under no circumstances shall Elanco be liable for special, indirect or consequential damages. This limitation of damages does not apply where prohibited by operation of law.

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ORNAMENTALS

WOODY SHRUBS

<u>Common Name</u>	<u>Scientific Name</u>
Andromeda, Japanese	<u>Pieris japonica</u>
Arborvitae, American	<u>Thuja occidentalis</u>
Azalea	<u>Rhododendron</u> spp.
Barberry, Japanese	<u>Berberis thunbergii</u>
Barberry, Mento	<u>Berberis mentorensis</u>
Boxwood, Common	<u>Buxus sempervirens</u>
Boxwood, Harlands	<u>Buxus harlandi</u>
Boxwood, Littleleaf	<u>Buxus microphylla</u>
Camellia, Japanese	<u>Camellia japonica</u>
Camellia, Sasanqua	<u>Camellia sasanqua</u>
Cherrylaurel, American	<u>Prunus caroliniana</u>
Cinquefoil	<u>Potentilla</u> spp.
Cleyera, Japanese	<u>Cleyera japonica</u>
Cotoneaster, Cranberry	<u>Cotoneaster apiculata</u>
Cotoneaster, Zabel	<u>Cotoneaster zabelii</u>
Deutzia	<u>Deutzia</u> spp.
Elaeagnus, Silverberry	<u>Elaeagnus pungens</u>
Euonymus, Spreading	<u>Euonymus kiautschovica</u>
Euonymus, Winged	<u>Euonymus alatus</u>
Euonymus, Wintercreeper	<u>Euonymus fortunei</u>
Firethorn	<u>Pyracantha</u> spp.
Forsythia	<u>Forsythia</u> spp.
Guava, Pineapple	<u>Feijoa sellowiana</u>
Holly	<u>Ilex</u> spp.
Honeysuckle	<u>Lonicera</u> spp.
Indiahawthorn	<u>Raphiolepis indica</u>
Juniper	<u>Juniperus</u> spp.
Laurel, Mountain	<u>Kalmia latifolia</u>
Lilac, Common	<u>Syringa vulgaris</u>
Mockorange	<u>Philadelphus</u> spp.
Pittosporum, Japanese	<u>Pittosporum tobira</u>
Privet	<u>Ligustrum</u> spp.
Redcedar, Eastern	<u>Juniperus virginiana</u>
Rhododendron	<u>Rhododendron</u> spp.
Spiraea, Vanhoutte	<u>Spiraea vanhouttei</u>
Viburnum	<u>Viburnum</u> spp.
Weigela	<u>Weigela</u> spp.
Willow	<u>Salix</u> spp.
Yew, Anglojap	<u>Taxus media</u>
Yew, Japanese	<u>Taxus cuspidata</u>
Yewpine	<u>Podocarpus macrophyllus</u>

INSERT 3 (CONTINUED)

TREES

<u>Common Name</u>	<u>Scientific Name</u>
Almond	<u>Prunus dulcis</u>
Apple, Crabapple	<u>Malus spp.</u>
Apricot	<u>Prunus armeniaca</u>
Ash, White	<u>Fraxinus americana</u>
Baldcypress	<u>Taxodium distichum</u>
Birch, European White	<u>Betula pendula</u>
Blackgum	<u>Nyssa sylvatica</u>
Cherry	<u>Prunus spp.</u>
Chestnut, Chinese	<u>Castanea mollissima</u>
Cottonwood	<u>Populus deltoides</u>
Dogwood, Flowering	<u>Cornus florida</u>
Dogwood, Kousa	<u>Cornus kousa</u>
Douglasfir	<u>Pseudotsuga menziesii</u>
Fir, Balsam	<u>Abies balsamea</u>
Hemlock, Canada	<u>Tsuga canadensis</u>
Honeylocust	<u>Gleditsia triacanthos</u>
Larch, Japanese	<u>Larix kaempferi</u>
Locust, Black	<u>Robinia pseudoacacia</u>
Maple, Norway	<u>Acer platanoides</u>
Maple, Red	<u>Acer rubrum</u>
Maple, Silver	<u>Acer saccharinum</u>
Maple, Sugar	<u>Acer saccharum</u>
Oak, Pin	<u>Quercus palustris</u>
Oak, Red	<u>Quercus rubra</u>
Oak, Scarlet	<u>Quercus coccinea</u>
Peach	<u>Prunus persica</u>
Pine, Austrian	<u>Pinus nigra</u>
Pine, Eastern White	<u>Pinus strobus</u>
Pine, Japanese Black	<u>Pinus thunbergiana</u>
Pine, Loblolly	<u>Pinus taeda</u>
Pine, Red	<u>Pinus resinosa</u>
Pine, Scotch	<u>Pinus sylvestris</u>
Planetree, London	<u>Platanus acerifolia</u>
Plum	<u>Prunus spp.</u>
Redbud, Eastern	<u>Cercis canadensis</u>
Spruce, Colorado	<u>Picea pungens</u>
Spruce, Norway	<u>Picea abies</u>
Spruce, White	<u>Picea glauca</u>
Sweetgum	<u>Liquidambar styraciflua</u>
Sycamore	<u>Platanus occidentalis</u>
Tuliptree	<u>Liriodendron tulipifera</u>
Walnut, Black	<u>Juglans nigra</u>

INSERT 3 (CONTINUED)

GROUND COVER PLANTINGS

<u>Common Name</u>	<u>Scientific Name</u>
Aaronsbeard	<u>Hypericum calycinum</u>
Bellflower, Adriatic	<u>Campanula elatines</u>
Bellflower, Poscharsky	<u>Campanula poscharskyana</u>
Ceanothus	<u>Ceanothus</u> spp.
Coreopsis	<u>Coreopsis</u> spp.
Cotoneaster	<u>Cotoneaster</u> spp.
Coyote Brush	<u>Baccharis pilularis</u>
Crown Vetch	<u>Coronilla vana</u>
Daisy Trailing African	<u>Osteospermum fruticosum</u>
Fern, Asparagus	<u>Asparagus densiflorus</u>
Gazania	<u>Gazania</u> spp.
Germander	<u>Teucrium chamaedrys</u>
Ice Plant, Largeleaf	<u>Carpobrotus edulis</u>
Ivy, Algerian	<u>Hedera canariensis</u>
Ivy, English	<u>Hedera helix</u>
Lily-of-the-Nile	<u>Agapanthus</u> spp.
Lilyturf, Bigblue	<u>Liriope muscari</u>
Marigold	<u>Tagetes</u> spp.
Myoporum	<u>Myoporum laetum</u>
Plumbago, Dwarf	<u>Ceratostigma plumbaginoides</u>
Rockrose	<u>Cistus</u> spp.
Rosemary	<u>Rosmarinus officinalis</u>
Rupturewort	<u>Herniaria glabra</u>
Snow-in-Summer	<u>Cerastium tomentosum</u>
Speedwell	<u>Veronica</u> spp.
St. Johnswort	<u>Hypericum coris</u>
Stonecrop (Sedum)	<u>Sedum</u> spp.
Strawberry, Beach	<u>Fragaria chiloensis</u>
Thrift	<u>Armeria maritima</u>
Verbena	<u>Verbena</u> spp.
Wirevine, Creeping	<u>Muehlenbeckia axillaris</u>
Yarrow, Woolly	<u>Achillea tomentosa</u>
Zoysiagrass	<u>Zoysia tenuifolia</u>

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INSERT 3 (CONTINUED)

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
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