719-98 11-20-2001

#### **UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

NOV 2 0 2001

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

Dear Mr. McMaster:

Subject: Treflan® 5G

EPA Registration No. 62719-98

Application and Your Letter Dated November 8, 2001, Request To Amend Registration by Revising First Aid Statements in Compliance with PR Notice 2001-1; and the

Terms and Conditions of Use Section

The proposed labeling amendments have been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

- 1. Correct the chemical expression for trifluralin, by either adding the Greek "alpha, alpha, alpha or  $\alpha$ ,  $\alpha$ " to the expression used in labeling of this product.
- 2. On the Base Label you have listed "Waterproof gloves"
   as part of the Personal Protective Equipment (PPE), that
   "Applicators and other handlers must wear". Revise this
   to read: "Chemical resistant gloves, such as butyl rubber
   > 11 mils; or natural rubber > 14 mils; or neoprene
   rubber > 14 mils; or nitrile rubber > 14 mils.
- 3. Revise the directions of use given under the section
  "Use Under Paved Surfaces": "Site Preparation". The
  claim: "Treflan 5G should be used only where the area to
  be treated has been prepared according to good
  construction practices.", must be clarified by changing
  the word "area" as "soil". Revise the following
  statements to read: "Application 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
  5G and do not apply Treflan 5G to soil where asphalt may
  be applied directly on top of the treated soil."
- 4. Submit one (1) copy of the final printed label prior to your shipment of this pesticide product under the enclosed revised stamped label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, section

6(e). Your release for shipment under this labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Sincerely yours,

on Joanne I. Miller

Product Manager (23)
Herbicide Branch

Registration Division (7505C)

Enclosure

ACCEPTED
with COMMENTS
In EPA Letter Dated

(Base Label):

(logo) Dow AgroSciences

NOV 2.0 2001

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

# Treflan\* 5G

A selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container Grown Ornamentals
- Landscape Ornamentals
- Nursery Stock
- Ground Covers

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Established Flowers

- Ornamental Bulbs
- Non-bearing Fruit and Nut Trees and Non- bearing Vineyards
- Christmas Tree Plantations
- Non-cropland
- Under Paved Surfaces

| Active ingredient:   |       |
|--|-------|
| trifluralin: 🗆, 🗆, 🗆 - trifluoro - 2,6 - dinitro - N, N - dipropyl - p - toluidine | 5.0%  |
| Inert Ingredients  | 95.0% |
| Total  |       |
|  |       |

Contains 2 pounds active ingredient per 40 pound bag.

### 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**

Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection 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 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.

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.

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.

#### **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's Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

[EDITOR'S NOTE: Insert here a fat, squat arrow pointing down ]

**Directions Enclosed** [EDITOR NOTE: Turned at a 20° angle inside a box which has the top, right and bottom sides as bold dotted lines and the left side as a solid line]

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. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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

EPA Reg. No. 62719-98

MO AHC AGF MM EPA Est. 2393-IL-3; 5905-IA-01; 32761-MO-3; 464-MI-1 Superscripts correspond to first letters of lot number.

\*Trademark of Dow AgroSciences LLC

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

# **Specialty Herbicide**

Net Weight: \_\_ lb

(Booklet cover):

(logo) Dow AgroSciences

## Treflan\* 5G

A selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container Grown Ornamentals
- Landscape Ornamentals
- Nursery Stock
- Ground Covers
- Established Flowers

- Ornamental Bulbs
- Non-bearing Fruit and Nut Trees and Non- bearing Vineyards
- Christmas Tree Plantations
- Non-cropland
- Under Paved Surfaces

| Active | Ingredient: |
|--------|-------------|
|        |             |

| trifluralin: 🗆, 🗅, 🗀 -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine | 5.0%   |
|--|--------|
| Inert Ingredients  | 95.0%  |
| Total  | 100.0% |

Contains 2 pounds active ingredient per 40 pound bag.

#### Keep Out of Reach of Children

## CAUTION PRECAUCION

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#### Agricultural Use Requirements

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Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE), and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

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 an emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

EPA Reg. No. 62719-98

MO AHC AGF MM
EPA Est. 2393-IL-3; 5905-IA-01; 32761-MO-3; 464-MI-1
Superscripts correspond to first letters of lot number.

\*Trademark of Dow AgroSciences LLC

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

# **Specialty Herbicide**

Net Weight \_\_ lb

(Page 1 through end):

#### **Precautionary Statements**

#### Hazards to Humans and Domestic Animals

### CAUTION

#### **Causes Moderate Eye Irritation**

Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- · Waterproof gloves
- · Shoes plus socks

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, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection 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.
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#### **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.

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:

- Coverails
- Chemical-resistant gloves
- 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 dusts have settled. If soil incorporation is required after the application, do not enter or allow others to enter the treated area (except those persons involved in the incorporation) until the incorporation is complete. If the incorporation is accomplished by watering-in, do not enter or allow others to enter the treated area until the surface is dry after the watering-in.

#### Storage and Disposal

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

**Storage:** Store in original container only. In case of leak or spill, contain material 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 Disposal:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



#### **General Information**

Treflan\* 5G herbicide is a preemergence herbicide for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards, Christmas tree plantations, noncropland, and under paved surfaces. Apply Treflan 5G before or after planting but prior to germination of target weeds, or immediately after cultivation. Length of weed control will vary with weed population, potting media or soil conditions, temperature, watering regime, and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed. Repeat applications should not be made sooner than 60 days after a previous application of Treflan 5G. Do not apply over 240 pounds per acre total of Treflan 5G within a 12-month period.

#### **General Use Precautions**

Treflan 5G does not control established weeds. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation, is required to activate Treflan 5G. Optimum weed control is obtained when Treflan 5G is activated within 3 days of application. If rainfall or irrigation has not occurred within 3 days of application and tillage is possible, Treflan 5G may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate Treflan 5G within 3 days of application may result in erratic weed control. Do not apply when wind conditions favor drift of Treflan 5G granules from the target area.

Optimum weed control will be obtained when followed by overhead irrigation or rainfall within a few hours after surface application.

Do not aerially apply this product.

# Weeds controlled by Treflan 5G when applied at 80 lb/acre (1.8 lb/1000 sq ft)

#### **Annual Grasses**

| Common | Ν | laı | me |
|--------|---|-----|----|
|--------|---|-----|----|

barley, hare

barnyardgrass (watergrass)

bluegrass, annual brome

cheat crabgrass

cupgrass, southwestern

fescue, rattail

foxtail

goosegrass junglerice

lovegrass oat, wild

panicum, fall

sandbur, field signalgrass

#### Scientific Name

Hordeum leporinum Echinochloa crus-galli

Poa annua

Bromus spp. Bromus secalinus

Digitaria spp. Eriochloa gracilis

Vulpia myuros Setaria spp. Eleusine indica

Echinochloa colonum Eragrostis spp.

Avena fatua

Panicum dichotomiflorum

Cenchrus incertus Brachiaria spp.



sprangletop, Mexican

stinkgrass witchgrass Leptochloa univervia Eragrostis cilianensis Panicum capillare

#### **Annual Broadleaf Weeds**

Common Name chickweed, common goosefoot, nettleleaf knotweed, prostrate kochia

lambsquarters, common nettle, stinging

pigweed purslane, common thistle, Russian Scientific Name

Stellaria media

Chenopodium murale Polygonum aviculare Kochia scoparia

Chenopodium album

Urtica dioica Amaranthus spp. Portulaca oleracea Salsola iberica

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 80 lb/acre (1.8 lb/1000 sq ft).

Common Name carpetweed johnsongrass (from seed) panicum, Texas pusley, Florida shattercane Scientific Name
Mollugo verticillata
Sorghum halepense
Panicum texanum

Richardia scabra Sorghum bicolor

#### **Application Directions**

Apply Treflan 5G using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or plant injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

#### Application Techniques for Applying Treflan 5G

When using a drop-type spreader, a splash board mounted under the hopper will provide more even granule distribution.

A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.

For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type rotary applicator such as whirlybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed.

A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, hard to treat areas. Carefully measure the amount of product needed to avoid overapplication.

#### **Approved Uses**

Container Grown Ornamentals, Landscape Ornamentals, Nursery Stock, Ground Covers, Established Flowers, Ornamental Buibs, Non-bearing Fruit and Nut Trees and Non-bearing Vineyards and Christmas Tree Plantations

Treflan 5G is recommended as a preemergence treatment for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards and Christmas tree plantations. Apply Treflan 5G before or after planting but prior to germination of target weeds, or immediately after cultivation.

Refer to the "General Information" section of this label for general use precautions and information on application, application rates and weeds controlled.

#### **Special Use Precautions**

To avoid possible injury, do not apply Treflan 5G to:

- nursery forest or Christmas tree seedling beds, cutting beds, or transplant beds
- unrooted liners or cuttings that have been planted in pots for the first time
- · pots less than four inches wide
- ground covers until they are established and well rooted

Do not apply Treflan 5G to newly transplanted ornamentals, nursery stock, ground covers, flowers and non-bearing fruit and nut crops and non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur.

Do not make preplant applications of Treflan 5G to areas where gladioli corms less than one inch in diameter will be planted or injury may occur.

Do not apply Treflan 5G in greenhouse or other enclosed structures.

Repeat applications should not be made sooner than 60 days after a previous application of Treflan 5G. Do not apply over 240 pounds per acre total of Treflan 5G within a 12-month period.

Users who wish to use Treflan 5G on plant species not recommended on this label may determine suitability for such uses by making trial application of Treflan 5G at a recommended rate to small number of plants. Prior to using Treflan 5G on a larger number of plants, the treated plants should be observed for signs of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from the use of Treflan 5G on plant species not recommended on this label.

Treflan 5G May Be Used On The Following Established Plant Species When Container Grown or Field Grown:

#### Trees

Scientific Name

Abies balsamea

Abies concolor

White fir

Abutilon hybridum

Albus-flowering maple
Luteus-flowering maple
Roseus-flowering maple
Tangerine-flowering maple
Vesuvius red-flowering maple

Acer gimmala flame maple
Acer platanoides Norway maple
Acer rubrum Red maple
Red sunset maple

Acer saccharinum

Acer saccharum

Areacastrum romanzoffianum

Betula nigra

Silver maple

Sugar maple

Queen palm

Betula nigra

Betula papyrifera Paper birch
Betula pendula European white birch
Brachychiton populneus Bottle tree

Brachychiton populneusBottle treeBucida bucerasBlack oliveCastanea mollissimaChinese chestnut

Ceratonia siliqua Carob Cercis canadensis Redbud

Chamaecyparis obtusa Filicoides-fernspray cypress
Gracilis-slender Hinoki cypress
Chamaecyparis pisifera Swara false cypress

Squarrosa-moss cypress

Chamaedorea cataractarum

Palm

Chamaedorea cataractarum
Chamaedorea costaricana
Chamaedorea elegans
Cornus florida
Palm
Parlor palm
Cloud nine dogwood

Cornus kousa
Crataegus viridis
Cupaniopsis anacardioides
Cupressus glabra
Elaeagnus angustifolia
Flowering dogwood
Dogwood, kousa
Green hawthorn
Carrot wood
Arizona cypress
Russian olive
Redgum eucalyptus

Eucalyptus cinerea Mealy eucalyptus
Silver dollar eucalyptus
Eucalyptus microtheca Coolibah tree

Eucalyptus sideroxylon Red ironbark eucalyptus Ficus beniamina Ficus

Fraxinus americana White ash
Fraxinus udhei Shamel ash
Giska bilaba

Ginko biloba Ginko-maidenhair tree Gleditsia triacanthos Honey locust

Shademaster honey locust

Heteromeles arbutiflora

Illicium floridanum

Juniperus virginiana

Larix kaempferi

Toyon

Florida anise-tree

Eastern red cedar

Japanese larch

Liquidambar styraciflua

Liriodendron tulipifera Magnolia spp. Malus spp.

Musa aluminata Nyssa sylvatica Oxydendrum arboreum

Picea abies

Morus alba

Picea glauca conica

Picea glauca Picea pungens

Pinus aristata Pinus canariensis Pinus contorta

Pinus eldarica Pinus leucodermis

Pinus mugo

Pinus nigra Pinus radiata Pinus resinosa Pinus taeda Pinus strobus

Pinus sylvestris

Pinus thunbergiana Platanus acerifolia Platanus occicentalis Platanus racemosa Podocarppus spp.

Populus deltoides Prosopis chilensis Prunus yedoensis

Pseudotsuga menziesii Quercus coccinea Quercus ilicifolia

Quercus palustris Quercus phellos Quercus rubra Quercus virginiana Robinia pseudoacacia Salix spp.

Sequoiadendron giganteum Swietenia mahogani Tabebuia caraiba

Taxodium distichum

Tilia spp.

Tsuga canadensis Ulmus parvitolia Washingtonia robusta American sweet gum

Tuliptree Magnolia Crabapple White mulberry

Banana Blackgum Sourwood

Norway spruce

Pendula-weeping Norway spruce Repens-spreading Norway spruce

Dwarf Alberta spruce

White spruce

Dwarf globe blue spruce

Glauca-Colorado blue spruce Hoopsii-Hoop's blue spruce Koster-Koster blue spruce

Bristlecone pine Canary Island pine Shore pine, beach pine

Eldarica pine Bosnian pine

Pumilio-shrubby Swiss mountain pine

Austrian black pine Monterey pine Red pine Loblolly pine

White pine

Columnar Scotch pine

Scotch pine

Japanese black pine London planetree American sycamore Califorina sycamore

Podocarpus Cottonwood Chilean mesquite

Yoshino flowering cherry

Douglasfir Scarlet oak Bear oak Pin oak Willow oak Red oak Live oak Black locust Willow

Giant sequoia Mahogany Yellow tab Baidcypress Linden

Eastern hemlock Chinese elm Mexican fan palm

#### **Ornamental Shrubs**

Common Name Scientific Name

Abelia grandiflora Edward Goucher abelia

Acacia abyssinica Acacia redolens Acacia stenophylla Acalypha wilkesiana Acer ginnala Glossy abelia Abyssinica acacia Abyssinica acacia Prostrate acacia Shoestring acacia Copper leaf Amur maple

Acer palmatum Coral bark Japanese maple

Dwarf Japanese maple

Agave americanaCentury plantAstilbe chinensisFalse spiraeaAthyrium nipponimcumJapanese painted fern

Baccharis pilularis Coyotebush

Berberis gladwynensii William Penn barberry

Berberis mentorensis Mentor barberry

Berberis thunbergii Atropurea-redleaf Japanese barberry

Aurea-golden Japanese barberry Crimson pygmy barberry

Rose glow barberry
Bougainvillea spp. Barbara Karst

Barbara Karst California gold Pink pixie Scarlet O'Hara Temple fire

Buxus microphylla japonica
Buxus microphylla Koreana
Buxus sempervirens
Callistemon citrinus
Callistemon viminalis

Texas dawn
Japanese boxwood
Korean boxwood
Common boxwood
Lemon bottlebrush
Weeping bottlebrush

Calluna vulgarisSpring torch scotch heatherCamellia sasanquaSasanqua camelliaCamellia japonicaJapanese camelliaCassia artemisioidesFeathery cassiaCeanothus spp.Wild lilac

Cephalotaxus drupacae Plum yew
Cerastium tomentosum Snow-in-summer
Chamaecyparis obtusa spp. Kosteri cypress

Nana-dwarf Hinoki cypress Torulosa cypress

Chamaecyparis pisifera Filifera-thread cypress

Chrysalidocarpus lutescens Areca palm
Clethra alnifolia Summersweet
Cleyera japonica Japanese cleyera

Cornus alba Sibirica-Siberian dogwood
Cornus stolonifera Baileyi red osier dogwood

Flaviramea-yellowtwig dogwood
otinus coggygria
Boyal purple smoke tree

Cotinus coggygria Royal purple smoke tree
Cotinus dammeri Coral beauty smoke tree
Eichholz smoke tree

Cotoneaster adpressus Praecox-early cotoneaster

Cotoneaster apiculatus
Cotoneaster congestus
Cotoneaster dammeri
Cotoneaster himalayan
Cotoneaster horizontalis
Cotoneaster zabelii
Cotoneaster zabelii
Cranberry cotoneaster
Pyrenees cotoneaster
Himalayan cotoneaster
Rock cotoneaster
Zabel cotoneaster

Cycas revoluta Sago palm

Cytisus praecox Hollandia-warminster broom

Cytisus scoparius Lena-Scotch broom Daphne odora Fragrant daphne

Deutzia spp. Deutzia
Dodonea viscosa Hopseed bush
Elaeagnus pungens Fruitland silver berry
Erica cinerea Purple bell heather

Erica x darleyensa Mediterranean pink heather

Erica vagans

Euonymus alatus

Euonymus fortunei

Canadale gold euonymus

Emerald'n gold euonymus

Sunspot euonymus Wintercreeper euonymus Silver king-euonymus

Variegated evergreen euonymus

Euonymous kiautschovica Spreading euonymus Feijoa sellowiana Pineapple guava

Forsythia spp. Forsythia

Euonymus japonica

Gardenia jasminoides August beauty gardenia

Gardenia

Gaultheria shallon
Gelsemium sempervirens
Radican gardenia
Salal/lemon leaf
Carolina jessamine

Genista pilosa Woadwaxen

Hibiscus rosa-sinensis
Hibiscus syriacus
Rose of Sharon-heart
Rose of Sharon-red bird
Rose of Sharon-woodbridge

*Ilex* spp. Holly

Illicium annisatum Mystery gardenia
Itea ilicifolia Henry Garnet holly leaf sweetspire

Ixora collinea Ixora
Juniperus spp. Juniper

Kalmia latifolia Mountain laurel Lagerstroemia indica Crape myrtle Lantana spp. Lantana

Leucothoe axillaris Coast leucothoe
Leucothoe fontainesiana Drooping leucothoe

Ligustrum spp. Privet
Livistona chinensis Chinese fountain palm
Lonicera periclymenum Flowering woodbine

Serotina woodbine
Lonicera sempervirens
Trumpet honeysuckle
Mahonia bealei
Leather leaf mahonia
Mahonia repens
Creeping mahonia

Myrica cerifera Wax myrtle

Nandina domestica Compacta-dwarf heavenly bamboo

Harbour dwarf-heavenly bamboo

Heavenly bamboo

Nana compacta-heavenly bamboo Nana purpurea-heavenly bamboo Woods dwarf heavenly bamboo

Nerium oleander

Hardy red oleander

Oleander

Ruby lace oleander Fortunes osmanthus

Osmanthus fortunei Philadelphus spp. Phoenix roeloelenii Photinia fraseri Pieris japonica

Mockorange Pigmy date palm Fraser's photinia Japanese andromeda

Mountain fire lily-of-the-valley Snowdrift lily-of-the-valley Templebells lily-of-the-valley Valley rose lily-of-the-valley Valley valentine lily-of-the-valley

Pieris japonica x forestii

Pinus mugo

Pittosporum tobira

Spiraea vanhouttii

Syringa rothomagensis

Forest flame lily-of-the-valley

Mugo-mugho pine Green pittosporum Japanese pittosporum Wheeler's dwarf pittosporum

Plumbago ariculata Blue cape plumbago

Plumbago Plumbago capensis Podocarpus macrophyllus Yewpine Polystichum polyblepharum Tassel fern

Potentilla spp. Cinquefoil Prunus caroliniana Carolina laurel cherry Dwarf pink flowering almond Prunus gladulosa

Pyracantha spp. Pyracantha

Rhaphiolepis indica Charisma-Monruce rhaphiolepis

Enchantress-Moness rhaphiolepis

India hawthorn

Springtime-Monme rhaphiolepis

Rhaphiolepis ovata Roundleaf rhaphiolepis Rhododendron spp. Azalea/rhododendron Rhus lancea Africa sumac

Rosa rugosa Ramanas rose Rosmarinus officinalis Rosemary

Skimmia japonica Japanese skimmia Skimmia revesiana Reeve's skimmia

Spiraea bumalda Anthony Waterer spiraea

Dolchia spiraea Spiraea japonica Japanese alpine spiraea

> Shirobana spiraea Bridal wreath Chinese lilac

Syringa vulgaris Common lilac Taxus cuspidata Upright Japanese yew

Taxus media Anglojap yew Tecomaria capensis Cape honeysuckle Ternstroemia gymnanthera

Thuja occidentalis American arborvitae Emerald arborvitae

Globosa-globe arborvitae Little giant-dwart arborvitae Nigra-dark American arborvitae Pyramidalis-pyramid arborvitae

Rheingold arborvitae Techny arborvitae

Thuja orientalis

Aureus nana-dwarf golden arborvitae

Minima glauca-dwarf arborvitae

Veitchia merrilliChristmas palmViburnum spp.ViburnumWeigela spp.WeigelaXylosma congestumXylosmaYucca filamentosaYucca

#### **Ground Covers**

Scientific Name

Achillea tomentosa Agapanthus spp. Ajuga spp.

Ammophila breviligulata Arctotheca calendula Armeria maritima Asparagus densiflorus

Campanula spp.

Carex spp.
Carpobrotus edulis

Ceratostigma plumbaginoides

Cistus spp.
Coreopsis spp.
Coronilla vana
Cortaderia selloana
Cotoneaster spp.
Delosperma alba
Descampsia caespitosa

Drosanthemum floribundum

Drosantheumum hispidum Festuca ovina glauca Fragaria chiloensis Gazania` spp.

Hakonechioa macroaureola

Hedera canariensis Hedera helix Hemerocallis spp. Herniaria glabra Hosta lancifoila

Hosta lancifolla Hypericum spp.

Liriope muscari

Jasminum nitidum Lampranthus spectabilis Liriope gigantea Common Name

Wooly yarrow Lily-of-the-nile Carpet bugle Beechgrass Cape weed Thrift

Asparagus fern Belifiower

Variegated carex Largeleaf iceplant Dwarf plumbago Rockrose Coreopsis

Coreopsis
Crown vetch
Pampas grass
Cotoneaster
White iceplant
Descampsia

Trailing rosea iceplant

Iceplant
Blue fescue
Strawberry, beach
Gazania

Golden hakonechloa

Algerian ivy English ivy Daylilly Rupturewort

Albo-marginata hosta

Aaronsbeard
St. Johnswort
Angelwing jasmine
Trailing iceplant
White lily turf
Big blue lily turf
Lilac beauty lily turf
Magestic lily turf

Silvery sunproof lily turf

Liriope spicata Miscanthus sinensis Muehlenbeckia axillaris Myoporum laetum Ophiopogon japonicus

Osteospermum fruticosum Pachysandra terminalis Pennisetum alopecuroides Phalaris arundinacea picta Sedum spp.
Teucrium chamaedrys Trachelospermum asiaticum Verbena spp.
Veronica spp.
Vinca spp.

Variegated liriope lily turf
Green/creeping lily turf
Eulalia grass
Creeping wirevine
Myoporum
Dwarf Mondo grass
Mondo grass
Trailing African daisy
Japanese spurge
Fountain grass
Ribbon grass
Stonecrop (sedum)
Germander
Asaian jasmine

#### **Established Flowers**

#### Scientific Name

Achillea spp.
Ageratum houstonianum

Alyssum spp. Antirrhinum majus Arctotis spp.

Artemisia schmidtiana Artemisia stellerana

Aster spp. Begonia spp.

Calendula officianalis
Centaurea cyanus
Centaurea gymnocarpa
Centaurea moschata
Chrysanthernum spp.
Convolvulus spp.
Coreopsis spp.
Cosmos spp.
Dahlia spp.
Dianthus spp.
Dicentra eximia
Digitalis mertonensis
Digitalis purpurea

Dimorphotheca spp.
Echinacea purpurea
Eschscholzia californica
Euphorbia marginata
Geranium spp.
Geum spp.
Gaillardia spp.
Gladiolus spp.
Guara lindheiveri
Gypsophila paniculata

Helianthus spp.

#### **Common Name**

Verbena Speedwell

Periwinkle

Yarrow

Floss flower Alyssum Snapdragon African daisy Silver mound Dusty miller Aster (perennial) Begonia Calendula Cornflower Velvet centaurea Sweet sultan Chrysanthemum Morningglory Coreopsis Cosmos Dahlia Dianthus Bleeding heart Foxglove

Common foxglove
Marigold, cape
Purple coneflower
California poppy
Snow-on-the-mountain

Geranium Geum Gaillardia Gladiolus Guara

Baby's breath Sunflower



Coral bells Heuchera spp. Aaron's beard Hypericum calycinum Impatiens balsamina Balsam Impatiens Impatiens sop. Iris spp. Iris Ixora spp. **!**xora Lathyrus odoratus Sweet pea Lavandula angustifolia English lavander Leucanthemum superbum Shasta daisy Liatris spicata Gavfeather Limonium spp. Statice

Lobelia spp. Lobelia
Lobularia maritima Sweet alyssum
Lupinus spp. Lupine

Matthiola spp.StockMirabilis jalapaFour o'clockMonarda didymaBee balmMyosotis spp.Forget-me-notNicotiana spp.NicotianaOenothera missouriensisOzark sundrop

Papaver spp.Poppy, CaliforniaPetunia hybridaPetuniaPenstemon barbatusBeard tonguePerovskia atriplicifoliaRussian sage

Phlox spp.PhloxPortulaca grandifloraPortulacaRosa spp.Rose

Rudbeckia hirta Blackeyed susan Rudbeckia laciniata Golden glow Salvia spp. Salvia

Scabiosa spp. Pincushion flower

Sedum spectible Stonecrop Lamb's ears Stachys spp. Stoke's aster Stokesia laevis Tagetes spp. Marigold Tanacetum cocineum Painted daisy Tropaeolum spp. Nasturtium Speedwell Veronica spicatum Vinca spp. Vinca Zinnea spp. Zinnia

#### **Ornamental Bulbs**

Treflan 5G may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply Treflan 5G to the soil surface 2 to 4 weeks after planting, but prior to the emergence of annual weeds. Treflan 5G may also be applied following bulb emergence. For fall planted bulbs, apply Treflan 5G again in late winter or early spring to weed-free soil surfaces.



### Non-bearing † Fruit and Nut Trees and Non-bearing Vineyards

Pistachio

Common Name Common Name Almond Kiwi Apple Lemon Loganberry Apricot Macadamia nut Avocado Nectarine Blackberry Blueberry Olive Boysenberry Orange Cherry, sour Peach Cherry, sweet Pear Currant Pecan

Elderberry Plum
Fig Pomegranate
Filbert Prune
Gooseberry Raspberry
Grape, American Walnut, black
Grape, European Walnut, English

Grapefruit

Dewberry

#### **Christmas Tree Plantations**

Apply Treflan 5G to established plantings of field grown Christmas tree species listed on this label. Do not apply to seedbeds or seedling transplant beds. Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation. Follow all instructions provided in the "General Information" section of this label.

#### Non-cropland Areas

Treflan 5G is recommended as a preemergence herbicide for control of certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guard rails, sign posts and delineators.

Apply Treflan 5G anytime prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides.

Refer to the "General Information" section prior to using this product on non-cropland.

#### **Use Under Paved Surfaces**

#### Site Preparation

Treflan 5G 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 grader blade to a depth sufficient to ensure their complete removal.

#### Application

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 5G and do not apply Treflan 5G to areas where asphalt is to be laid directly on top of soil.

<sup>&</sup>lt;sup>†</sup> Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants that will not bear fruit for at least one year after treatment.

Paving should follow applications of Treflan 5G as soon as possible.

Apply Treflan 5G to ensure thorough coverage of the base rock layer. Apply with any granular applicator that will apply uniformly.

Apply the following amount of Treflan 5G

| Amount of Treflan 5G |                |  |
|----------------------|----------------|--|
| Per Acre             | Per 1000 sq ft |  |
| 240 - 320 lb         | 5.5 - 7.3 lb   |  |

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#### Warranty Disclaimer

Seller 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. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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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 Seller. All such risks shall be assumed by Buyer.

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