



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms Amy Warren  
Control Solutions, Inc  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

APR 24 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated March 19, 2009 for:

**EPA Registration 53883-240**

**Trifluralin 5G**

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

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

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 53883-240	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Trifluralin 5G	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Control Solutions, Inc. 5903 Genoa-Red Bluff Pasadena, TX 77507-1041 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**NOTIFICATION**  
**APR 24 2009**

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<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.)

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

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input checked="" type="checkbox"/> Glass	<input checked="" type="checkbox"/> Paper
				Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1-50 lb		5. Location of Label Directions <input checked="" type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product		<input checked="" type="checkbox"/> Lithograph Paper glued 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 Amy Warren	Title Regulatory Affairs Specialist	Telephone No. (Include Area Code) 800-242-5562
2. Signature 		6. Date Application Received (Stamped)
3. Title Regulatory Affairs Specialist		
4. Typed Name Amy Warren	5. Date 3-19-2009	

**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 knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.



3/19

# CONTROL SOLUTIONS incorporated

March 19, 2009

Document Processing Desk (NOTIF)  
Office of Pesticide Programs(7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202-4501

**Re: Notification per (PR) Notice 2007-4, Labeling Revisions required by the Final Rule "Pesticide Management and Disposal" (EPA Reg. No. 53883-240, Trifluralin 5G)**

Dear Sir or Madam:

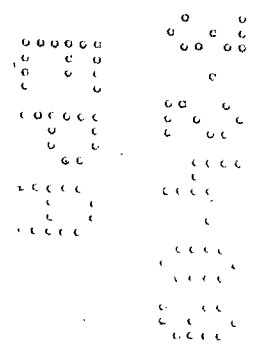
Enclosed is a Notification for (PR) 2007-4; See highlighted text on attached labeling.

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

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

Amy Warren  
Regulatory Affairs Specialist  
Control Solutions, Inc.



# Trifluralin 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: a,a, a-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine .....	5.0%
<b>Inert Ingredients:</b> .....	95.0%
<b>Total</b> .....	100.0%

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. Wear long-sleeved shirt and long pants, socks and shoes. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

<b>First Aid</b>	
<b>If in eyes:</b>	Flush eyes with plenty of water. 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 physician if irritation persists.
<b>If swallowed:</b>	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.
<b>If on skin or clothing:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
<b>If inhaled:</b>	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 Safety Call® (866) 897-8050 for emergency medical treatment information.	

### NOTIFICATION

APR 24 2009

## Personal Protective Equipment (PPE)

### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves, such as butyl rubber > 11 mils; or natural rubber > 14 mils; or neoprene rubber > 14 mils; or nitrile rubber > 14 mils.
- 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.

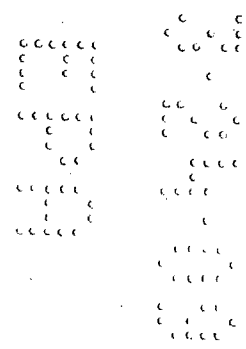
## Environmental Hazards

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 (RE) 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:

- Coveralls over long-sleeved shirt and long pants, socks and chemical-resistant footwear and waterproof gloves.

**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.

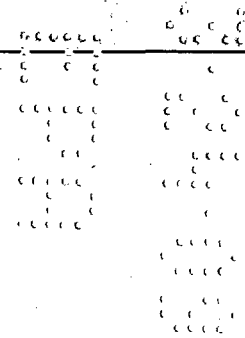
**Pesticide Storage:** Store in original container only. Keep in an area that is inaccessible to children and pets.

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: If empty:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Do not rinse unless required for recycling. If recycling is not available, then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**If partly filled:** Call your local solid waste agency for disposal instructions. Never pour unused product down any indoor or outdoor drain.



**General Information**

Trifluralin 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 Trifluralin 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 Trifluralin 5G. Do not apply over 240 pounds per acre total of Trifluralin 5G within a 12-month period.

**Use Precautions**

Trifluralin 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 Trifluralin 5G. Optimum weed control is obtained when Trifluralin 5G is activated within 3 days of application. If rainfall or irrigation has not occurred within 3 days of application and tillage is possible, Trifluralin 5G may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate Trifluralin 5G within 3 days of application may result in erratic weed control. Do not apply when wind conditions favor drift of Trifluralin 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**

The following list of weeds and grasses will be controlled when Trifluralin 5G is applied at 80 lb/acre (1.8 lb/1000 sq ft).

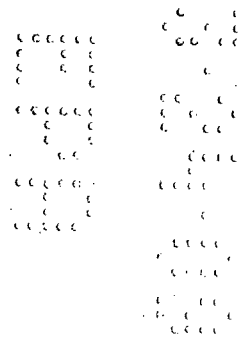
**Annual Grasses**

**Common Name**

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*

The following weeds will be partially controlled or suppressed at 80 lb/acre (1.8 lb/1000 sq ft).

**Scientific Name**

*Mollugo verticillata*  
*Sorghum halepense*  
*Panicum texanum*  
*Richardia scabra*  
*Sorghum bicolor*

**Common Name**

carpetweed  
johnsongrass (from seed)  
panicum, Texas  
pusley, Florida  
shattercane

**Application Instructions**

Apply Trifluralin 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**

1. When using a drop-type spreader, a splash board mounted under the hopper will provide more even granule distribution.
2. 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.
3. 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.
4. 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 over-application.



**Use Sites**

Trifluralin 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 Trifluralin 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.

**Use Precautions**

To avoid possible injury, do not apply Trifluralin 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 Trifluralin 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.

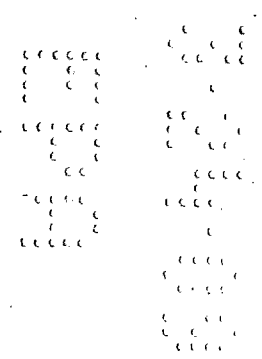
Do not make preplant applications of Trifluralin 5G to areas where gladioli corms less than one inch in diameter will be planted or injury may occur.

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

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

Users who wish to use Trifluralin 5G on plant species not recommended on this label may determine suitability for such uses by making trial application of Trifluralin 5G at a recommended rate to small number of plants. Prior to using Trifluralin 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 Trifluralin 5G on plant species not recommended on this label.**

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



**Trees**

**Scientific Name**

**Common Name**

*Abies balsamea*  
*Abies concolor*  
*Abutilon hybridum*

Balsam fir  
White fir  
Albus-flowering maple  
Luteus-flowering maple  
Roseus-flowering maple  
Tangerine-flowering maple  
Vesuvius red-flowering maple

*Acer ginnala*  
*Acer platanoides*  
*Acer rubrum*

flame maple  
Norway maple  
Red maple  
Red sunset maple

*Acer saccharinum*  
*Acer saccharum*  
*Areacastrum*

Silver maple  
Sugar maple  
Queen palm

*romanzoffianum*

*Betula nigra*  
*Betula papyrifera*  
*Betula pendula*  
*Brachychiton populneus*  
*Bucida buceras*  
*Castanea mollissima*  
*Ceratonia siliqua*  
*Cercis canadensis*  
*Chamaecyparis obtuse*

River birch  
Paper birch  
European white birch  
Bottle tree  
Black olive  
Chinese chestnut  
Carob  
Redbud  
Filicoides-fernspray cypress  
Gracilis-slender Hinoki cypress  
Swara false cypress  
Squarrosa-moss cypress

*Chamaecyparis pisifera*

*Chamaedorea cataractarum*  
*Chamaedorea costaricana*  
*Chamaedorea elegans*  
*Cornus florida*

Palm  
Palm  
Parlor palm  
Cloud nine dogwood  
Flowering dogwood  
Dogwood, kousa

*Cornus kousa*  
*Crataegus viridis*  
*Cupaniopsis anacardioides*  
*Cupressus glabra*  
*Elaeagnus angustifolia*  
*Eucalyptus camaldulensis*  
*Eucalyptus cinerea*

Green hawthorn  
Carrot wood  
Arizona cypress  
Russian olive  
Redgum eucalyptus  
Mealy eucalyptus  
Silver dollar eucalyptus  
Coolibah tree  
Red ironbark eucalyptus

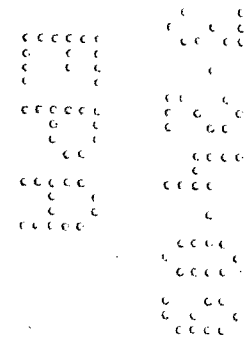
*Eucalyptus microtheca*  
*Eucalyptus sideroxyion*  
*Ficus benjamina*

Ficus  
Mini ficus  
White-ash  
Sharnel ash  
Ginko-maidenhair tree  
Honey locust  
Shademaster honey locust

*Fraxinus americana*  
*Fraxinus udhei*  
*Ginko biloba*  
*Gleditsia triacanthos*

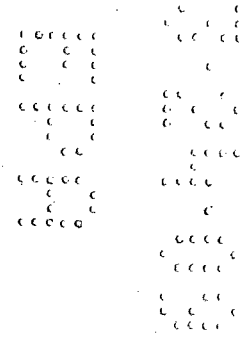
Toyon  
Florida anise-tree  
Eastern red cedar  
Japanese larch

*Heteromeles arbutiflora*  
*Illicium floridanum*  
*Juniperus virginiana*  
*Larix kaempferi*



*Liquidambar styraciflua*  
*Liriodendron tulipifera*  
*Magnolia* spp.  
*Malus* spp.  
*Morus alba*  
*Musa aluminata*  
*Nyssa sylvatica*  
*Oxydendrum arboreum*  
*Picea abies*  
  
*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 occidentalis*  
*Platanus racemosa*  
*Podocarpus* 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 parvifolia*  
*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  
Haopsii-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  
Labially 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  
Baldcypress  
Linden  
Eastern hemlock  
Chinese elm  
Mexican fan palm



**Ornamental Shrubs**

**Scientific Name**

**Common Name**

*Abelia grandiflora*

Edward Goucher abelia

Glossy abelia

*Acacia abyssinica*

Abyssinica acacia

*Acacia redolens*

Prostrate acacia

*Acacia stenophylla*

Shoestring acacia

*Acalypha wilkesiana*

Copper leaf

*Acer ginnala*

Amur maple

*Acer palmatum*

Coral bark Japanese maple

Dwarf Japanese maple

*Agave americana*

Century plant

*Astilbe chinensis*

False spiraea

*Athyrium nipponicum*

Japanese painted fern

*Baccharis pilularis*

Coyotebush

*Berberis gladwynensis*

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

California gold

Pink pixie

Scarlet O'Hara

Temple fire

Texas dawn

*Buxus microphylla japonica*

Japanese boxwood

*Buxus microphylla Koreaana*

Korean boxwood

*Buxus sempervirens*

Common boxwood

*Callistemon citrinus*

Lemon bottlebrush

*Callistemon viminalis*

Weeping bottlebrush

*Calluna vulgaris*

Spring torch scotch heather

*Camellia sasanqua*

Sasanqua camellia

*Camellia japonica*

Japanese camellia

*Cassia artemisloides*

Feathery cassia

*Ceanothus* spp.

Wild lilac

*Cephalotaxus drupacea*

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

*Cotinus coggygria*

Royal purple smoke tree

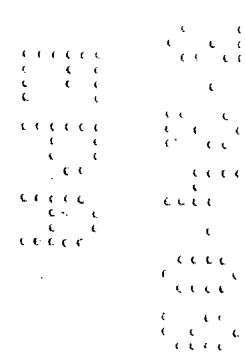
*Cotinus dammeri*

Coral beauty smoke tree

Eichholz smoke tree

*Cotoneaster adpressus*

Praecox-early cotoneaster



*Cotoneaster apiculatus*  
*Cotoneaster congestus*  
*Cotoneaster dammeri*  
*Cotoneaster himalayan*  
*Cotoneaster horizontalis*  
*Cotoneaster zabelii*  
*Cycas revoluta*  
*Cytisus praecox*  
*Cytisus scopanus*  
*Daphne odora*  
*Deutzia* spp.  
*Dodonea viscosa*  
*Elaeagnus pungens*  
*Erica cinerea*  
*Erica x darleyensa*  
*Erica vagans*  
*Euonymus alatus*  
*Euonymus fortunei*

*Euonymus japonica*

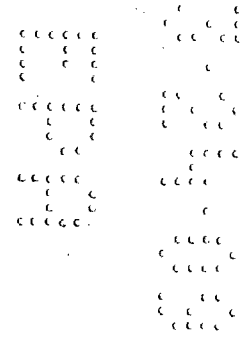
*Euonymous kiautschovica*  
*Feijoa sellowiana* Forsythia  
spp.  
*Gardenia jasminoides*

*Gaultheria shallon*  
*Gelsemium sempervirens*  
*Genista pilosa*  
*Hibiscus rosa-sinensis*  
*Hibiscus syriacus*

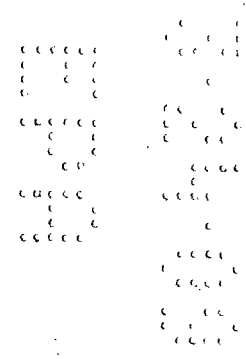
*Ilex* spp.  
*Illicium annisatum*  
*Itea ilicifolia*  
*Ixora collinea*  
*Juniperus* spp.  
*Kalmia latifolia*  
*Lagerstroemia indica*  
*Lantana* spp.  
*Leucothoe axillaris*  
*Leucothoe fontainesiana*  
*Ligustrum* spp.  
*Livistona chinensis*  
*Lonicera periclymenum*

*Lonicera sempervirens*  
*Mahonia bealei*  
*Mahonia repens*  
*Myrica cerifera*  
*Nandina domestica*

Cranberry cotoneaster  
Pyrenees cotoneaster  
Bearberry cotoneaster  
Himalayan cotoneaster  
Rock cotoneaster  
Zabel cotoneaster  
Sago palm  
Hollandia-warminster broom  
Lena-Scotch broom  
Fragrant daphne  
Deutzia  
Hopseed bush  
Fruitland silver berry  
Purple bell heather  
Mediterranean pink heather  
Cornish heather  
Winged euonymus  
Canadale gold euonymus  
Emerald'n gold euonymus  
Sunspot euonymus  
Wintercreeper euonymus  
Silver king-euonymus  
Variegated evergreen euonymus  
Spreading euonymus  
Pineapple guava  
Forsythia  
August beauty gardenia  
Gardenia  
Radican gardenia  
Salallemmon leaf  
Carolina jessamine  
Woadwaxen  
Ross Estey-hibiscus Rose of  
Sharon-heart Rose of  
Sharon-red bird Rose of  
Sharon-woodbridge  
Holly  
Mystery gardenia  
Henry Garnet holly leaf sweetspire  
Ixora  
Juniper  
Mountain laurel  
Crape myrtle  
Lantana  
Coast leucothoe  
Drooping leucothoe  
Privet  
Chinese fountain palm  
Flowering woodbine  
Serotina woodbine  
Trumpet honeysuckle  
Leather leaf mahonia  
Creeping mahonia Wax  
myrtle  
Compacta-dwarf heavenly bamboo



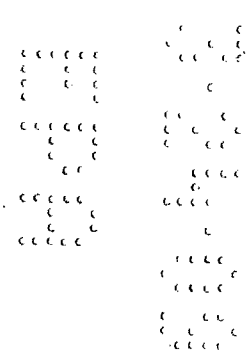
	Harbour dwarf-heavenly bamboo	
	Heavenly bamboo	
	Nana compacta-heavenly bamboo	
	Nana purpurea-heavenly bamboo	
	Woods dwarf heavenly bamboo	
<i>Nerium oleander</i>	Hardy red oleander	
	Oleander	
	Ruby lace oleander	
<i>Osmanthus fortunei</i>	Fortunes osmanthus	
<i>Philadelphus spp.</i>	Mockorange	
<i>Phoenix roelofenii</i>	Pigmy date palm	
<i>Photinia fraseri</i>	Fraser's photinia	
<i>Pieris japonica</i>	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	
<i>Pieris japonica x forestii</i>	Forest flame lily-of-the-valley	
<i>Pinus mugo</i>	Mugo-mugho pine	
<i>Piffosporum tobira</i>	Green pittosporum	
	Japanese pittosporum	
	Wheeler's dwarf pittosporum	
<i>Plumbago ariculata</i>	Blue cape pumbago	
<i>Plumbago capensis</i>	Plumbago	
<i>Podocarpus macrophyllus</i>	Yewpine	
<i>Polystichum polyblepharum</i>	Tassel fern	
<i>Potentilla spp.</i>	Cinquefoil	
<i>Prunus caroliniana</i>	Carolina laurel cherry	
<i>Prunus gladiosa</i>	Dwarf pink flowering almond	
<i>Pyracantha spp.</i>	Pyracantha	
<i>Rhaphiolepis indica</i>	Charisma-Monruce raphiolepis	
	Enchantress-Moness raphiolepis	
	India hawthorn	
	Springtime-Monme raphiolepis	
<i>Rhaphiolepis ovata</i>	Roundleaf raphiolepis	
<i>Rhododendron spp.</i>	Azalea/rhododendron	
<i>Rhus lancea</i>	Atrica sumac	
<i>Rosa rugosa</i>	Ramanas rose	
<i>Rosmarinus officinalis</i>	Rosemary	
<i>Skimmia japonica</i>	Japanese skimmia	
<i>Skimmia revesiana</i>	Reeve's skimmia	
<i>Spiraea bumalda</i>	Anthony Waterer spiraea	
<i>Spiraea japonica</i>	Dolchia spiraea	
	Japanese alpine spiraea	
	Shirobana spiraea	
<i>Spiraea vanhouttii</i>	Bridal wreath	
<i>Syringa rothomagensis</i>	Chinese lilac	
<i>Syringa vulgaris</i>	Common lilac	
<i>Taxus cuspidata</i>	Upright Japanese yew	
<i>Taxus media</i>	Anglojap yew	
<i>Tecomaria capensis</i>	Cape honeysuckle	
<i>Ternstroemia gymnanthera</i>		
<i>Thuja occidentalis</i>	American arborvitae	
	Emerald arborvitae	



	Globosa-globe arborvitae
	Little giant-dwarf arborvitae
	Nigra-dark American arborvitae
	Pyramidalis-pyramid arborvitae
	Rheingold arborvitae
	Techny arborvitae
Thuja orientalis	Aureus nana-dwarf golden arborvitae
	Minima glauca-dwarf arborvitae
Veitchia merrilli	Christmas palm
Viburnum spp.	Viburnum
Weigela spp.	Weigela
Xylosma congestum	Xylosma
Yucca filamentosa	Yucca

**Ground Covers**

<u>Scientific Name</u>	<u>Common Name</u>
<i>Achillea tomentosa</i>	Wooly yarrow
<i>Agapanthus</i> spp.	Lily-of-the-nile
<i>Ajuga</i> spp.	Carpet bugle
<i>Ammophila breviligulata</i>	Beechgrass
<i>Arctotheca calendula</i>	Cape weed
<i>Armeria maritima</i>	Thrift
<i>Asparagus densiflorus</i>	Asparagus fern
<i>Campanula</i> spp.	Bellflower
<i>Carex</i> spp.	Variiegated carex
<i>Carpobrotus edulis</i>	Largeleaf iceplant
<i>Ceratostigma plumbaginoides</i>	Dwarf plumbago
<i>Cistus</i> spp.	Rockrose
<i>Coreopsis</i> spp.	Coreopsis
<i>Coronilla vana</i>	Crown vetch
<i>Cortaderia selloana</i>	Pampas grass
<i>Cotoneaster</i> spp.	Cotoneaster
<i>Delosperma alba</i>	White iceplant
<i>Descampsia caespitosa</i>	Descampsia
<i>Drosantherum floribundum</i>	Trailing rosea iceplant
<i>Drosantherumum hispidum</i>	Iceplant
<i>Festuca ovina glauca</i>	Blue fescue
<i>Fragaria chiloensis</i>	Strawberry, beach
<i>Gazania</i> spp.	Gazania
<i>Hakonechloa macroaureola</i>	Golden hakonechloa
<i>Hedera canariensis</i>	Algerian ivy
<i>Hedera helix</i>	English ivy
<i>Hemerocallis</i> spp.	Daylilly
<i>Herniaria glabra</i>	Rupturewort
<i>Hosta lancifolia</i>	Albo-marginata hosta
<i>Hypanicum</i> spp.	Aaronsbeard
	St. Johnswort
<i>Jasminum nitidum</i>	Angelwing jasmine
<i>Lampranthus spectabilis</i>	Trailing iceplant
<i>Liriope gigantea</i>	White lily turf
<i>Liriope muscari</i>	Big blue lily turf
	Lilac beauty lily turf
	Magestic lily turf.
	Silvery sunproof lily turf



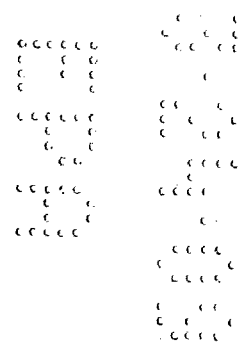
<i>Liriope spicata</i>	Variegated liriopelily turf
<i>Miscanthus sinensis</i>	Green/creeping lily turf
<i>Muehlenbeckia axillaris</i>	Eulalia grass
<i>Myoporum laetum</i>	Creeping wirevine
<i>Ophiopogon japonicus</i>	Myoporum
	Dwarf Mondo grass
	Mondo grass
<i>Osteospermum fruticosum</i>	Trailing African daisy
<i>Pachysandra terminalis</i>	Japanese spurge
<i>Pennisetum alopecuroides</i>	Fountain grass
<i>Phalaris arundinacea picta</i>	Ribbon grass
<i>Sedum spp.</i>	Stonecrop (sedum)
<i>Teucrium chamaedrys</i>	Germander
<i>Trachelospermum asiaticum</i>	Asaian jasmine
<i>Verbena spp.</i>	Verbena
<i>Veronica spp.</i>	Speedwell
<i>Vinca spp.</i>	Periwinkle

**Established Flowers**

Scientific Name

Common Name

<i>Achillea spp.</i>	Yarrow
<i>Ageratum houstonianum</i>	Floss flower
<i>Alyssum spp.</i>	Alyssum
<i>Antirrhinum majus</i>	Snapdragon
<i>Arctotis spp.</i>	African daisy
<i>Artemisia schmidtiana</i>	Silver mound
<i>Artemisia stellerana</i>	Dusty miller
<i>Aster spp.</i>	Aster (perennial)
<i>Begonia spp.</i>	Begonia
<i>Calendula officianalis</i>	Calendula
<i>Centaurea cyanus</i>	Cornflower
<i>Centaurea gymnocarpa</i>	Velvet centaurea
<i>Centaurea moschata</i>	Sweet sultan
<i>Chrysanthemum spp.</i>	Chrysanthemum
<i>Convolvulus spp.</i>	Morningglory
<i>Coreopsis spp.</i>	Coreopsis
<i>Cosmos spp.</i>	Cosmos
<i>Dahlia spp.</i>	Dahlia
<i>Dianthus spp.</i>	Dianthus
<i>Dicentra eximia</i>	Bleeding heart
<i>Digitalis mertonensis</i>	Foxglove
<i>Digitalis purpurea</i>	Common foxglove
<i>Dimorphotheca spp.</i>	Marigold, cape
<i>Echinacea purpurea</i>	Purple coneflower
<i>Eschscholzia californica</i>	California poppy
<i>Euphorbia marginata</i>	Snow-on-the-mountain
<i>Geranium spp.</i>	Geranium
<i>Geum spp.</i>	Geum
<i>Gaillardia spp.</i>	Gaillardia
<i>Gladiolus spp.</i>	Gladiolus
<i>Guara lindheiveri</i>	Guara
<i>Gypsophila paniculata</i>	Baby's breath
<i>Helianthus spp.</i>	Sunflower

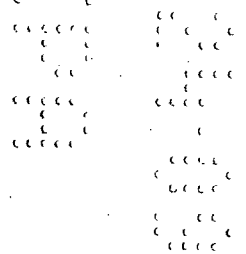




<i>Heuchera</i> spp.	Coral bells
<i>Hypericum calycinum</i>	Aaron's beard
<i>Impatiens balsamina</i>	Balsam
<i>Impatiens</i> spp.	Impatiens
<i>Iris</i> spp.	Iris
<i>Ixora</i> spp.	Ixora
<i>Lathyrus odoratus</i>	Sweet pea
<i>Lavandula angustifolia</i>	English lavender
<i>Leucanthemum superbum</i>	Shasta daisy
<i>Liatris spicata</i>	Gayfeather
<i>Limonium</i> spp.	Statice
<i>Lobelia</i> spp.	Lobelia
<i>Lobularia maritima</i>	Sweet alyssum
<i>Lupinus</i> spp.	Lupine
<i>Matthiola</i> spp.	Stock
<i>Mirabilis jalapa</i>	Four o'clock
<i>Monarda didyma</i>	Bee balm.
<i>Myosotis</i> spp.	Forget-me-not
<i>Nicotiana</i> spp.	Nicotiana
<i>Oenothera missouriensis</i>	Ozark sundrop
<i>Papaver</i> spp.	Poppy, California
<i>Petunia hybrida</i>	Petunia
<i>Penstemon barbatus</i>	Beard tongue
<i>Perovskia atriplicifolia</i>	Russian sage
<i>Phlox</i> spp.	Phlox
<i>Portulaca grandiflora</i>	Portulaca
<i>Rosa</i> spp.	Rose
<i>Rudbeckia hirta</i>	Blackeyed susan
<i>Rudbeckia laciniata</i>	Golden glow
<i>Salvia</i> spp.	Salvia
<i>Scabiosa</i> spp.	Pincushion flower
<i>Sedum spectabile</i>	Stonecrop
<i>Stachys</i> spp.	Lamb's ears
<i>Stokesia laevis</i>	Stoke's aster
<i>Tagetes</i> spp.	Marigold
<i>Tanacetum coccineum</i>	Painted daisy
<i>Tropaeolum</i> spp.	Nasturtium
<i>Veronica spicata</i>	Speedwell
<i>Vinca</i> spp.	Vinca
<i>Zinnia</i> spp.	Zinnia

**Ornamental Bulbs**

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



## Non-bearing\* Fruit and Nut Trees and Non-bearing Vineyards

Almond	Kiwi
Apple	Lemon
Apricot	Loganberry
Avocado	Macadamia nut
Blackberry	Nectarine
Blueberry	Olive
Boysenberry	Orange
Cherry, sour	Peach
Cherry, sweet	Pear
Currant	Pecan
Dewberry	Pistachio
Elderberry	Plum
Fig	Pomegranate
Filbert	Prune
Gooseberry	Raspberry
Grape, American	Walnut, black
Grape, European	Walnut, English
Grapefruit	

\* 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.

### Christmas Tree Plantations

Apply Trifluralin 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

Trifluralin 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 Trifluralin 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

Trifluralin 5G should be used only where the soil to be treated has been prepared according to good construction practices. If rhizomes, stolons, tubers or other vegetative plant parts are present in the site, they should be removed by scalping with grader blade to a depth sufficient to ensure their complete removal.

#### Application

Applications may be made only when the final road bed is established or after the base rock has been added. Do not move soils following application of Trifluralin 5G and do not apply Trifluralin 5G to areas where asphalt is to be laid directly on top of soil.

19  
/ 19

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

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

**Application Rate**

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

**Warranty Statement**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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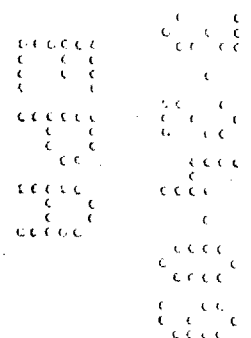
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Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

EPA Reg. No. 53883-240  
EPA Est. No. XXXXX-XX-XXX

Net Weight:



**NOTIFICATION**

**APR 24 2000**