



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

53883-240

9 MAY 2008

Term of Issuance:

conditional

Name of Pesticide Product:

Trifluralin 5G

NOTICE OF PESTICIDE:

- Registration
  - Reregistration
- (under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

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

**Note:** Changes in labeling, differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Submit the data listed below:
  - a. Within one year of the date on this registration notice, submit Storage Stability (830.6317) and Corrosion Characteristics (830.6320) studies.
3. Make the following label changes:
  - a. Under Storage and Disposal, revise the first bullet to read "Pesticide Storage".

Signature of Approving Official:

Joanne I. Miller  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

Date:

9 MAY 2008

- b. The Precautionary Statements must read "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."
- c. Under Agricultural Use Requirements, change to "Coveralls over long-sleeved shirt and long pants, socks and chemical resistant footwear and waterproof gloves".
- d. Under "First Aid", add statements "Flush eyes with plenty of water" and "Call a physician if irritation persists" to If in Eyes.
- e. Revise the EPA Registration Number to read, "EPA Reg. No. 53883-240."

Submit one copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

# 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

**ACCEPTED**  
**with COMMENTS**  
 In EPA Letter Dated:  
 9 MAY 2008

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

**Active Ingredient:**

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

53883-240

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.

First Aid	
<b>If in eyes:</b>	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.
<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.	

**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
- 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**

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 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 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, 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 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**

<u>Common Name</u>	<u>Scientific Name</u>
barley, hare	<i>Hordeum leporinum</i>
barnyardgrass (watergrass)	<i>Echinochloa crus-galli</i>
bluegrass, annual	<i>Poa annua</i>
brome	<i>Bromus spp.</i>
cheat	<i>Bromus secalinus</i>
crabgrass	<i>Digitaria spp.</i>
cupgrass, southwestern	<i>Eriochloa gracilis</i>
fescue, rattail	<i>Vulpia myuros</i>
foxtail	<i>Setaria spp.</i>
goosegrass	<i>Eleusine indica</i>
jungerice	<i>Echinochloa colonum</i>
lovegrass	<i>Eragrostis spp.</i>
oat, wild	<i>Avena fatua</i>
panicum, fall	<i>Panicum dichotomiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>
signalgrass	<i>Brachiaria spp.</i>

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**

*Stellana 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 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**

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**

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

*Acer ginnala*  
*Acer piatanoides*  
*Acer rubrum*

*Acer saccharinum*  
*Acer saccharum*  
*Areacastrum*

*romanzoffianum*

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

*Chamaecyparis pisifera*

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

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

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

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

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

**Common Name**

Balsam fir  
White fir  
Albus-flowering maple  
Luteus-flowering maple  
Roseus-flowering maple  
Tangerine-flowering maple  
Vesuvius red-flowering maple  
flame maple  
Norway maple  
Red maple  
Red sunset maple  
Silver maple  
Sugar maple  
Queen palm

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  
Palm  
Palm  
Parlor palm  
Cloud nine dogwood  
Flowering dogwood  
Dogwood, kousa  
Green hawthorn  
Carrot wood  
Arizona cypress  
Russian olive  
Redgum eucalyptus  
Mealy eucalyptus  
Silver dollar eucalyptus  
Coolibah tree  
Red ironbark eucalyptus  
Ficus  
Mini ficus  
White ash  
Sharnel ash  
Ginko-maidenhair tree  
Honey locust  
Shademaster honey locust  
Toyan  
Florida anise-tree  
Eastern red cedar  
Japanese larch

*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  
Glaucous-Colorado blue spruce  
Hopsii-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

Century plant

*Agave americana*

False spiraea

*Astilbe chinensis*

Japanese painted fern

*Athyrium nipponicum*

Coyotebush

*Baccharis pilularis*

William Penn barberry

*Berberis gladwynensis*

Mentor barberry

*Berberis mentorensis*

Atropurea-redleaf Japanese barberry

*Berberis thunbergii*

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 Koreana*

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 artemisoides*

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

*Chrysalldocarpus 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*

*Euonymus 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  
 Salal/lemon 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</i> spp.	Mockorange
<i>Phoenix roeloenii</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>Pifosporum 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</i> spp.	Cinquefoil
<i>Prunus caroliniana</i>	Carolina laurel cherry
<i>Prunus glandulosa</i>	Dwarf pink flowering almond
<i>Pyracantha</i> spp.	Pyracantha
<i>Raphiolepis indica</i>	Charisma-Monruce raphiolepis
	Enchantress-Moness raphiolepis
	India hawthorn
	Springtime-Monme raphiolepis
<i>Raphiolepis ovata</i>	Roundleaf raphiolepis
<i>Rhododendron</i> spp.	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

Thuja orientalis

Veitchia merrilli  
Viburnum spp.  
Weigela spp.  
Xylosma congestum  
Yucca filamentosa

Globosa-globe arborvitae  
Little giant-dwarf arborvitae  
Nigra-dark American arborvitae  
Pyramidalis-pyramid arborvitae  
Rheingold arborvitae  
Techny arborvitae  
Aureus nana-dwarf golden arborvitae  
Minima glauca-dwarf arborvitae  
Christmas palm  
Viburnum  
Weigela  
Xylosma  
Yucca

**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  
Drosantheum floribundum  
Drosantheum hispidum  
Festuca ovina glauca  
Fragaria chiloensis  
Gazania spp.  
Hakonechloa macroaureola  
Hedera canariensis  
Hedera helix  
Hemerocallis spp.  
Herniaria glabra  
Hosta lancifolia  
Hypericum spp.

Jasminum nitidum  
Lampranthus spectabilis  
Liriope gigantea  
Liriope muscari

**Common Name**

Woolly yarrow  
Lily-of-the-nile  
Carpet bugle  
Beechgrass  
Cape weed  
Thrift  
Asparagus fern  
Bellflower  
Variegated carex  
Largeleaf iceplant  
Dwarf plumbago  
Rockrose  
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 lirioppe 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  
 Verbena  
 Speedwell  
 Periwinkle

**Established Flowers**

**Scientific Name**

**Common 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*  
*Chrysanthemum* 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 lindheimeri*  
*Gypsophila paniculata*  
*Helianthus* spp.

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

*Heuchera* spp.  
*Hypericum calycinum*  
*Impatiens balsamina*  
*Impatiens* spp.  
*Iris* spp.  
*Ixora* spp.  
*Lathyrus odoratus*  
*Lavandula angustifolia*  
*Leucantherum superbum*  
*Liatris spicata*  
*Limonium* spp.  
*Lobelia* spp.  
*Lobularia maritima*  
*Lupinus* spp.  
*Matthiola* spp.  
*Mirabilis jalapa*  
*Monarda didyma*  
*Myosotis* spp.  
*Nicotiana* spp.  
*Oenothera missouriensis*  
*Papaver* spp.  
*Petunia hybrida*  
*Penstemon barbatus*  
*Perovskia atriplicifolia*  
*Phlox* spp.  
*Portulaca grandiflora*  
*Rosa* spp.  
*Rudbeckia hirta*  
*Rudbeckia laciniata*  
*Salvia* spp.  
*Scabiosa* spp.  
*Sedum spectabile*  
*Stachys* spp.  
*Stokesia laevis*  
*Tagetes* spp.  
*Tanacetum coccineum*  
*Tropaeolum* spp.  
*Veronica spicata*  
*Vinca* spp.  
*Zinnia* spp.

Coral bells  
 Aaron's beard  
 Balsam  
 Impatiens  
 Iris  
 Ixora  
 Sweet pea  
 English lavender  
 Shasta daisy  
 Gayfeather  
 Statice  
 Lobelia  
 Sweet alyssum  
 Lupine  
 Stock  
 Four o'clock  
 Bee balm  
 Forget-me-not  
 Nicotiana  
 Ozark sundrop  
 Poppy, California  
 Petunia  
 Beard tongue  
 Russian sage  
 Phlox  
 Portulaca  
 Rose  
 Blackeyed susan  
 Golden glow  
 Salvia  
 Pincushion flower  
 Stonecrop  
 Lamb's ears  
 Stoke's aster  
 Marigold  
 Painted daisy  
 Nasturtium  
 Speedwell  
 Vinca  
 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 Treflan 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.

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.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors in the use of this product, which are beyond the control of Control Solutions, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ISP, and Buyer and User assume the risk of any such use. CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the fullest extent permitted by law Control Solutions, Inc. or Seller shall in no event be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ISP OR SELLER, THE REPLACEMENT OF THE PRODUCT.

Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitations of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Control Solutions, Inc.

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

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

Net Weight: