

7969-317

10/5/2010

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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:
7969-317

Date of Issuance:
OCT 5 2010

NOTICE OF PESTICIDE:

x Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance: unconditional

Name of Pesticide Product:
Segment T/O herbicide

Name and Address of Registrant (include ZIP Code):

BASF Corporation
Agricultural Products
26 Davis Drive
Research Triangle Park, NC 27709

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 registered in accordance with FIFRA provided that you:

- 1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revisions:
a. Revise "EPA Reg. No. 7969-xxx" to "EPA Reg. No. 7969-317"
b. Include the net contents and establishment number in the final printed labeling

Submit one (1) 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.

Signature of Approving Official:

Jim Tompkins
Project Manager 25
Herbicide Branch
Registration Division (7505P)

[Handwritten signature of Jim Tompkins]

Date:

OCT 5 2010

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# Segment® T/O

## herbicide

**Active Ingredient\*:**

sethoxydim: [2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one] ..... 13.0%

**Other Ingredients:** ..... 87.0%

**Total:** ..... 100.0%

\* Equivalent to 1.0 pound of sethoxydim per gallon.  
Contains petroleum distillate

EPA Reg. No. 7969-~~xxx~~ 317

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

See inside for complete **First Aid, Precautionary Statements, Directions for Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated OCT 05 2010

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

**Net Contents:**

7969-317

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

 **BASF**  
The Chemical Company

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give any liquid to the person.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>Note to physician:</b> May pose an aspiration pneumonia hazard. Contains petroleum distillate.	
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

### **Precautionary Statements**

#### **Hazards to Humans and Domestic Animals**

**CAUTION.** Causes moderate eye injury. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing.

#### **Personal Protective Equipment (PPE)**

Some materials that are chemically resistant to this product are listed below. For more options, refer to **Category E** on an EPA chemical-resistance category selection chart.

#### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils or made of any waterproof material
- Shoes plus socks

Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **Engineering Controls Statement**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the 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/PPE 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**

For terrestrial uses, **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** contaminate water when disposing of equipment washwaters.

#### **Endangered Species Concerns**

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

### **Directions For Use**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **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.

All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

### 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), notification to workers, 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:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

### NONAGRICULTURAL USE REQUIREMENTS

The requirements in 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, nurseries, or greenhouses. **DO NOT** allow people or pets to come into contact with treated areas until sprays have dried.

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

#### Pesticide Storage

**DO NOT** store below 32° F or above 100° F. Store in a dry place away from heat or open flame. Avoid contamination of feed or foodstuffs.

#### Pesticide Disposal

Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on-site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container Handling

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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## In Case of Emergency

In case of large-scale spillage regarding this product, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spill and call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation: 1-800-832-HELP (4357)

## Product Information

**Segment® T/O herbicide** is a selective, broad-spectrum, postemergence herbicide for control of annual and perennial grass weeds in turf, ornamentals, nonfood, and noncrop sites listed on this label. **Segment T/O** does not control sedges or broadleaf weeds. All grass crops, such as sorghum, corn, small grains, and rice, as well as ornamental grasses, such as turf, are susceptible to **Segment T/O**. A program for total vegetation suppression may necessitate the use of a broadleaf herbicide. Any combination treatment using **Segment T/O**, either tank mixed or sequential, should be tested to determine if seed-head growth suppression is maintained without increased injury or discoloration to tall fescue or other desired plant species. A reduction in grass competition may make certain broadleaf weeds appear more prominent or may allow new weeds to germinate.

**Segment T/O may be used in or around the following sites:**

Airports	Pipeline pumping stations
Bedding plants	Potting soil and topsoil
Centipedegrass and fine fescue turf	Public buildings
Drug and medicinal crops	Recreation areas
Electrical transformer stations	Rights-of-way
Fences and hedgerows	Roadsides
Fine fescue seed production	Sewage disposal areas
General indoor/outdoor sites	Shrubs
Ground covers	Storage yards
Industrial sites	Trees, Christmas trees
Other paved areas	Uncultivated agricultural areas
Perennial peanuts (nonfood)	Wildflowers

## Mode of Action

**Segment T/O** rapidly enters the targeted grass weed through its foliage and translocates throughout the plant. The effects range from slowing or stopping growth (generally within 2 days), to foliage reddening and leaf-tip burn. Subsequently, foliage burnback occurs. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

## Crop Tolerance

All labeled crops are tolerant to **Segment T/O** at all stages of growth. Leaf speckling may occur, but plants generally outgrow this condition within 10 days. New growth is normal, and crop vigor is not reduced.

**Notice to User:** Due to variability within species, and in application techniques and equipment, and the number of tank mix combinations, neither the manufacturer nor the seller has determined if **Segment T/O** can safely be used on all varieties and species of nonbearing food crops, trees, shrubs, ornamentals, bedding plants, ground covers, nursery plants, wildflowers, Christmas trees, turf and other nonfood crops under all conditions. It is recommended, therefore, that the professional user determine if **Segment T/O** can be used safely before broad use by applying the recommended use rate of **Segment T/O** under the conditions expected to be encountered on a small test area. Any adverse effects should be visible within 7 days.

## Herbicide Resistance

Repeated use of **Segment T/O** (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes with resistance to these products. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. Consult your local representative or agricultural advisor for assistance.

## Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

## Coverage

Apply **Segment T/O** uniformly and completely to the foliage of grasses on a spray-to-wet basis. Dense leaf canopies shelter smaller grassy weeds and can prevent adequate spray coverage. **DO NOT** spray to the point of runoff.

## Cultivation/Mowing

If cultivation is an option, **DO NOT** cultivate during the time between 5 days before and 7 days after applying **Segment T/O**. Cultivating 7 to 14 days after treatment may help provide season-long control of perennial grasses. Centipedegrass and fine fescue areas should not be mowed within 7 days before or after applying **Segment T/O**. Increased control has been observed when mowing is delayed until 14 days after application. Grass weeds that have been mowed or have regrown from

mowed stubble may be controlled poorly. Repeat application if new germination or regrowth occurs.

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### Application Instructions

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Applications (aerial, broadcast, band, or spot spray) can be made to actively growing grassy weeds at the rates and growth stages listed in **Table 1**, **Table 2**, and **Table 3**, unless instructed differently in **Crop-specific Information**. The most effective control will result from making post-emergence applications of **Segment® T/O herbicide** early, when grassy weeds are small. Delaying application permits grassy weeds to exceed the maximum size stated and will prevent adequate control.

**DO NOT** apply when conditions favor drift from target area or when wind speed is greater than 10 mph.

#### Ground Application (Broadcast)

**Water Volume.** Use 5 to 50 gallons of spray solution per acre (1 to 10 pints per 1,000 square feet).

**Spray Pressure.** Use 30 to 60 psi (measured at the boom, not at the pump or in the line). When crop and grass weed foliage is dense, use a minimum of 20 gallons (3.67 pints per 1,000 square feet) of water and 60 psi.

**Application Equipment.** Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. **DO NOT** use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles because erratic coverage can cause inconsistent weed control. Refer to the nozzle manufacturer's directions for recommended height.

**DO NOT** use selective application equipment such as recirculating sprayers or wiper applicators.

#### Spot or Small Area Application

**Segment T/O** can be applied using tank-type sprayers, knapsack sprayers, high-volume equipment with hand-guns, or other suitable nozzle arrangements. Prepare a solution of **Segment T/O** in water according to **Table 4**.

**DO NOT** make spot treatments in addition to broadcast or band treatment.

#### Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

**Table 1. Segment® T/O herbicide Application Rates for Annual Grass Control**

Grasses Controlled Common Name                      Scientific Name		Maximum Rate per Application <sup>1</sup>	
		Grasses up to 6" height	Grasses up to 12" height
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>	2.25 pints per acre	3.75 pints per acre
Broadleaf signalgrass	<i>Brachiaria platyphylla</i>	or	or
Brome, downy <sup>5</sup>	<i>Bromus tectorum</i>	0.8 fluid ounce per	1.4 fluid ounces per
Crabgrass, large <sup>2,3</sup>	<i>Digitaria sanguinalis</i>	1,000 square feet	1,000 square feet
Crabgrass, smooth <sup>2,3</sup>	<i>Digitaria ischaemum</i>		
Cupgrass, woolly	<i>Eriochloa villosa</i>		
Fescue, tall, seedling	<i>Festuca arundinacea</i>		
Foxtail, giant (Pigeongrass)	<i>Setaria faberi</i>		
Foxtail, green	<i>Setaria viridis</i>		
Foxtail, yellow	<i>Setaria glauca</i>		
Goosegrass <sup>2,3</sup>	<i>Eleusine indica</i>		
Johnsongrass, seedling	<i>Sorghum halepense</i>		
Junglerice	<i>Echinochloa colonum</i>		
Lovegrass	<i>Eragrostis cilianensis</i>		
Orchardgrass, seedling	<i>Dactylis glomerata</i>		
Panicum, browntop	<i>Panicum fasciculatu</i>		
Panicum, fall	<i>Panicum dichotomiflorum</i>		
Panicum, Texas	<i>Panicum texanum</i>		
Ryegrass, annual <sup>5</sup>	<i>Lolium multiflorum</i>		
Sandbur, field	<i>Cenchrus incertus</i>		
Shattercane/Wildcane	<i>Sorghum bicolor</i>		
Sprangletop, red*	<i>Leptochloa filiformis</i>		
Stiltgrass, Japanese	<i>Microstegium vimineum</i>		
Volunteer barley	<i>Hordeum vulgare</i>		
Volunteer oats	<i>Avena sativa</i>		
Volunteer rye	<i>Secale Cereale</i>		
Volunteer wheat	<i>Triticum aestivum</i>		
Wild oats	<i>Avena fatua</i>		
Wild proso millet	<i>Panicum miliaceum</i>		
Witchgrass	<i>Panicum capillare</i>		

<sup>1</sup> See **Crop-specific Information** for crop-specific maximum seasonal use rates.  
<sup>2</sup> Up to 4"  
<sup>3</sup> In seedling centipedegrass and fine fescue, use 1.5 pints per acre or 0.5 fluid ounce per 1,000 square feet.  
<sup>4</sup> Up to 6"  
<sup>5</sup> Up to 8"  
\* Not recommended in Arizona or western New Mexico.

**Table 2. Segment® T/O herbicide Application Rates for Perennial Grass Control**

Grasses Controlled Common Name                      Scientific Name		Maximum Rate per Application <sup>1</sup>	
		Grasses up to 6" height	Grasses up to 12" height
Bahiagrass <sup>2</sup>	<i>Paspalum notatum</i>	2.25 pints per acre	3.75 pints per acre
Bentgrass, colonial	<i>Agrostic tenuis</i>	or	or
Bentgrass, highland	<i>Agrostic tenuis</i>	0.8 fluid ounce per	1.4 fluid ounces per
Bermudagrass (Wiregrass) <sup>3</sup>	<i>Cynodon dactylon</i>	1,000 square feet	1,000 square feet
Johnsongrass, rhizome	<i>Sorghum halepense</i>		
Quackgrass	<i>Agropyron repens</i>		
Velvetgrass, German <sup>2</sup>	<i>Holcus mollis</i>		
Wirestem muhly	<i>Muhlenbergia frondosa</i>		

<sup>1</sup> See **Crop-specific Information** for crop-specific maximum seasonal use rates.  
<sup>2</sup> Up to 4"  
<sup>3</sup> 6" stolon maximum

**Table 3. Spot Treatment Application Rates**

Grass (see <b>Table 1</b> and <b>Table 2</b> for the complete list of grasses controlled)	Concentration of Segment T/O in Spray Solution (%)
Annual grasses up to 6" height	1.5
Annual grasses up to 12" height	2.25
Perennial grasses	2.25 <sup>1</sup>

<sup>1</sup> Use 1.5% for wirestem muhly.

**Table 4. Spot Treatment Dilution**

Spray Solution Volume (gallons)	Amount of Segment T/O to be Added (fl oz)	
	1.5% v/v	2.25% v/v
1	2	3
3	6	9
5	9.5	14.5

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## Additives

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No additives or adjuvants are recommended for use with **Segment® T/O herbicide**.

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## Tank Mixing Information

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Read and follow the applicable restrictions and limitations and **Directions For Use** on all products involved in tank mixing. Refer to **Crop-specific Information** for more details.

The most restrictive labeling applies to tank mixes.

Separate applications should be made if all target grassy weeds are not at the correct growth stage for treatment at the same time.

Tank mixing **Segment T/O** with some postemergence broadleaf herbicides has shown some reduction or failure to control some grassy weeds that would otherwise be controlled, and therefore may require a higher rate of **Segment T/O**. However, **DO NOT** exceed the maximum rate per application as listed in **Table 1** and **Table 2**. If regrowth occurs or an additional flush of new grasses emerges, reapply **Segment T/O** according to rates in **Table 1** and **Table 2**.

### Tank Mix Partners

The following herbicides may be tank mixed with **Segment T/O** according to the instructions in the respective product labels.

- **Basagran® T/O**
- **Goal® 2XL**
- **Stinger®**

Physical incompatibility, reduced grass weed control, or crop injury may result from mixing **Segment T/O** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF-recommended tank mixes.

### Compatibility Test for Tank Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

1. **Water** - For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
2. **Products in PVA bags** - Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water-soluble PVA bag first when preparing spray solution. Cap the jar and invert 10 cycles.
3. **Water-dispersible products** (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions) - Cap the jar and invert 10 cycles.

4. **Water-soluble products** - Cap the jar and invert 10 cycles.
5. **Emulsifiable concentrates (Segment T/O)** - Cap the jar and invert 10 cycles.
6. **Water-soluble additives** - Cap the jar and invert 10 cycles.
7. Let the solution stand for 15 minutes.
8. **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. **DO NOT** use any spray solution that could clog spray nozzles.

### Mixing Order

1. **Water** - Begin by agitating a thoroughly clean sprayer tank half full of clean water.
2. **Products in PVA bags** - Rinse the tank thoroughly before adding any material in PVA bags as boron residue will prevent adequate mixing. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and are evenly mixed in the spray tank before continuing.
3. **Water-dispersible products** (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
4. **Water-soluble products**
5. **Emulsifiable concentrates (Segment T/O)**
6. **Water-soluble additives**
7. **Remaining quantity water**

Maintain constant agitation during application.

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## Restrictions and Limitations

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- **Maximum seasonal use rate.** See **Crop-specific Information** for crop-specific maximum seasonal use rates.
- **Restricted-Entry Interval (REI): 12 hours.**
- Avoid all direct or indirect contact with any desired grass crop unless otherwise recommended on the **Segment T/O** label.
- **DO NOT** use treated vegetation as pasture, hay, feed, or forage.
- **DO NOT** apply **Segment T/O** with another pesticide when label cautions against use with additives, surfactants, or oil adjuvants.
- **DO NOT** use **selective application equipment** such as recirculating sprayers, wiper applicators, or shielded applicators.
- **Stress. DO NOT** apply to grasses or crops under stress, such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as unsatisfactory control will probably result.
- **DO NOT** apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications because this injury may be enhanced or prolonged.
- **Rainfast Period. Segment T/O** is rainfast 1 hour after application.

- **DO NOT** apply through any type of irrigation equipment.

### Crop-specific Information

Applications (aerial, broadcast, band, or spot spray) can be made to actively growing grassy weeds at the rates and growth stages listed in **Table 1**, **Table 2**, and **Table 3**, unless instructed differently in **Crop-specific Information**.

### Christmas Tree and Deciduous Tree Farms

**Segment® T/O herbicide** may be used to control annual and perennial grasses in Christmas trees (see **Table 5**) and deciduous tree farms.

If a Christmas tree or deciduous tree is not listed in **Table 8**, the user may determine if **Segment T/O** can be used safely prior to broad use by applying the specified use rate of **Segment T/O** to the target plant on a small test area under the conditions expected to be encountered. Any adverse effects should be visible within 7 days.

**Table 5. Christmas Trees**

Common Name	Scientific Name
Fir, balsam	<i>Abies balsamea</i>
Fir, Douglas	<i>Pseudotsuga mensiesii</i>
Fir, Frasier	<i>Abies fraseri</i>
Fir, grand	<i>Abies grandis</i>
Fir, noble	<i>Abies procera (A. nobilis)</i>
Fir, Nordmann	<i>Abies nordmanniana</i>
Fir, red	<i>Abies magnifica</i>
Fir, Shasta	<i>Abies magnifica</i>
Fir, Turkish	<i>Abies bornmuelleriana</i>
Fir, white	<i>Abies concolor</i>
Hemlock, Canada	<i>Tsuga canadensis</i>
Pine, Austrian	<i>Pinus nigra</i>
Pine, lodgepole	<i>Pinus contorta latifolia</i>
Pine, Monterey	<i>Pinus radiata</i>
Pine, ponderosa	<i>Pinus ponderosa</i>
Pine, Scotch	<i>Pinus sylvestris</i>
Pine, Southern (longleaf)	<i>Pinus palustris</i>
Pine, Virginia	<i>Pinus virginiana</i>
Pine, white	<i>Pinus strobus</i>
Spruce, Black Hills	<i>Picea glauca</i>
Spruce, Colorado Blue	<i>Picea pungens</i>
Spruce, Norway	<i>Picea abies</i>
Spruce, white	<i>Picea glauca</i>

### Tank Mixes

#### Segment T/O + Goal® 2XL herbicide

- Segment T/O:** Up to 3.75 pints per acre
- Goal 2XL:** 1.0 to 2.0 pints per acre

This tank mix may be applied to control a broad spectrum of grass and broadleaf weeds in conifers and Christmas trees. Consult the **Goal 2XL** label for the list of grassy weeds and/or broadleaf weeds controlled. See previous pages for the minimum rates of **Segment T/O**, and see the **Goal 2XL** label for minimum rates of **Goal 2XL**. For season-long control, 2 to 3 applications may be needed. In some cases, reduced grass control may result when tank mixing **Segment T/O** with **Goal 2XL**.

Apply a spray volume of 20 gallons per acre at 40 psi before conifer bud break or after conifer foliage has had an opportunity to harden off. Broadleaf weeds must be within the height indicated on the **Goal 2XL** label. Refer to **Goal 2XL** label for preemergence weed control application rates.

#### Specific Restrictions and Limitations

**DO NOT** apply this tank mix when temperatures exceed 90° F.

**DO NOT** apply this tank mix to conifer seedlings less than 10 months old.

**DO NOT** apply this tank mix by aircraft equipment.

#### Segment T/O + Stinger® herbicide

- Segment T/O:** 0.5 to 1.5 pints per acre
- Stinger:** Refer to manufacturer's label.

A postemergence tank mix application of **Segment T/O + Stinger** will not only control a broad spectrum of grasses, but also certain broadleaf weeds (such as Canada thistle, clover, vetch, knapweed); **Segment T/O** will suppress other broadleaf weeds. Consult the **Stinger** labeling for a list of broadleaf weeds controlled.

This tank mix may be applied only over the top of the following actively growing trees:

fir (balsam, Douglas, Frasier, grand, noble), pine (lodgepole, ponderosa, Scotch, white), and spruce (blue).

**In the Pacific Northwest, DO NOT** apply this tank mix in the first year of transplanting as injury (leaf curling) may occur.

**DO NOT** apply more than 0.5 pint of **Stinger** per acre on blue spruce.

**DO NOT** add a surfactant or oil concentrate to this tank mix as injury may occur.

**Nonbearing Food Crops, Ornamental and Nursery Plantings, Rights-of-way, Nonfood Crop Areas, Noncrop Areas, and Fallow Land**

Apply **Segment® T/O herbicide** to nonbearing food crops, nursery liners, trees, shrubs, ornamentals, bedding plants, cut flowers, and ground covers including those listed in **Table 6** and **Table 8**. If species in the application site are not listed in **Table 6** and **Table 8**, **Segment T/O** may be applied as a directed spray away from the foliage of desired plants. **Segment T/O** may also be applied to sites such as rights-of-way, fallow land, noncrop areas and nonfood crop areas such as airports, industrial sites, roadsides, storage yards, and other areas listed in **Product Information**. Repeat application if new germination or regrowth occurs.

**Table 6. Nonbearing Food Crops and Nursery Liners Tolerant to Segment T/O**

- Almonds
- Apples
- Apricots
- Asparagus
- Avocados
- Blackberries
- Blueberries
- Cherries
- Crabapples
- Cranberries
- Dates
- Figs
- Grapefruits
- Grapes
- Lemons
- Limes
- Macadamias
- Nectarines
- Olives
- Oranges
- Peaches
- Peanuts, perennial
- Pears
- Pecans
- Pistachios
- Plums
- Pomegranates
- Prunes
- Raspberries
- Tangelos
- Tangerines
- Walnuts

**DO NOT** apply to nonbearing food crops within 1 year of harvest.

**Ornamental Sites**

**Tank Mixes**

**Segment T/O + Basagran® T/O herbicide**

- Segment T/O:** Up to 3.75 pints per acre
- Basagran T/O:** Up to 2 pints per acre

This tank mix may be applied as a directed spray to control yellow nutsedge, grass, and broadleaf weeds in nonbearing food crops and ornamental sites including trees, shrubs, bedding plants, and ground covers. This tank mix should be applied as a directed spray away from the foliage of desired plants. If any desirable plant foliage receives direct or indirect application, wash off immediately. The use of an oil concentrate, as mentioned on the **Basagran T/O** labels, is not necessary in this tank mix. Over-the-top applications of this tank mix may be made to certain ground covers. Consult the **Basagran T/O** label for this listing.

**Roadsides, Rights-of-way, and Nonfood Crop Alleyways**

**(Not intended for domestic use, except by professional applicators)**

**Segment T/O** will suppress the initiation and development of the seed heads of established tall fescue. Discoloration of the fescue will occur soon after application and may persist for 2 to 8 weeks depending on environmental conditions. Avoid applying to any tall fescue area where discoloration is aesthetically unacceptable.

**Timing.** Apply **Segment T/O** to tall fescue before the emergence of seed heads in the spring. **DO NOT** apply after May 1 in Alabama, Georgia, and Tennessee; timing may vary in other areas. Tall fescue must be one-year old before the first application of **Segment T/O**.

**Rate.** Apply 1.5 pints per acre (0.6 ounce per 1,000 square feet) of **Segment T/O**.

**Spray volume.** Use 30 to 50 gallons per acre (5.5 to 9.0 pints per 1,000 square feet).

**Restrictions and Limitations**

**DO NOT** make more than one application of **Segment T/O** to tall fescue per year.

Treated vegetation may not be used as feed, forage, hay, or silage. **Segment T/O** will not injure clovers, vetch, or other broadleaf plants that may be present.

**Tree Farms**

**ESTABLISHED TALL FESCUE GROWTH SUPPRESSION**

**Segment T/O** may be used in tree farms to suppress the growth of tall fescue when grown as a desired ground cover. Tall fescue must be actively growing at the time of **Segment T/O** application or injury may occur. Follow the directions on rates and timing closely.

**Timing.** Apply **Segment® T/O herbicide** to tall fescue after it has had 4 to 6 inches of new growth, before the emergence of seed heads, and before conifer bud break. Application from July 1 to mid-August may be less effective, especially if day temperatures reach 90° F. Tall fescue must be one-year old before the first application of **Segment T/O**.

**Rate.** Apply 3 to 3.75 pints of **Segment T/O** per acre (0.6 to 0.7 ounce per 1,000 square feet). For greater fescue suppression, up to 60 fluid ounces of **Segment T/O** can be used per acre (1.4 ounces per 1,000 square feet). Local environmental differences or growth differences at the time of application to tall fescue may cause results to be different from those desired. Users of **Segment T/O** are advised to begin using **Segment T/O** at the minimum rate and adjust rates as local conditions and experience dictate. Additional applications may be made if extended growth suppression is desired.

**Turf, Lawns, Rights-of-way**

**FINE FESCUE GROWN FOR TURF SEED  
(Not for use in California)**

**Segment T/O** may be used to control annual and perennial grass weeds in fine fescue. On seedling centipedegrass, **DO NOT** apply more than 1.5 pints per acre per application or 3 pints per acre per season. On established centipedegrass, **DO NOT** apply more than 2.25 pints per acre per application or 4.5 pints per acre per season. **Make applications in the Pacific Northwest from November 1 to March 15 at the rates indicated in Table 7.** Applying **Segment T/O** at other times of the year will generally result in reduced control of these problem grass weeds. **Segment T/O** does not control annual bluegrass or rattail fescue.

**Restrictions and Limitations**

**DO NOT** apply **Segment T/O** to desirable tall fescue turf.

**Table 7. Application Rates for Pacific Northwest Only**

Grass Species	Weed Size (inches)	Rate per Acre* (pints)
<b>Annual Grasses</b>		
Annual ryegrass	4 to 8	2.25
Downy brome <sup>1</sup>	2 to 6	3.75
<b>Perennial Grasses</b>		
German velvetgrass	2 to 4	3 to 3.75
Colonial and Highland bentgrasses	2 to 4	2.25 to 3.75

<sup>1</sup> Also called cheatgrass.  
\* If regrowth occurs or new plants emerge, make a second application at the same rate and weed size.

**Tank Mixes**

**Segment T/O + Basagran® T/O herbicide**

**Segment T/O:** 2.25 pints per acre  
**Basagran T/O:** 2 to 4 pints per acre

A tank mix of **Segment T/O** and **Basagran T/O** may be applied to control yellow nutsedge (nutgrass), grass, and broadleaf weeds in centipedegrass and fine fescue areas. This tank mix may be applied to established turf grass. **DO NOT** apply to newly seeded turf sites until the turf has become fully established. **The use of oil concentrate in this tank mix is not recommended.**

**Wildflowers**

**Segment T/O** may be used to control grass in native wildflowers on roadsides and in landscapes.

**Segment T/O** will reduce the competition from grasses on wildflower species. Grass competition can cause flower stand thinning, stunting and reduced seed production, which reduces the aesthetic value and the resetting potential of the wildflower stand. Many wildflower species are tolerant of **Segment T/O** applications such as those listed in **Table 8.** However, apply **Segment T/O** prior to blooming.

**Application Timing**

Apply **Segment T/O** to grass after wildflowers have emerged, but not during flowering. Apply **Segment T/O** 4 to 6 weeks after wildflowers have emerged, but always base the application timing on grass size. Make broadcast applications according to **Table 1, Table 2, and Table 3.** A second application may be necessary if a new flush of grass occurs later in the growing season.

Table 8. Tolerant Plant Species

Common Name	Scientific Name	Common Name	Scientific Name
<b>Tree Species</b>		<b>Tree Species (continued)</b>	
Acacia, knife leaf	<i>Acacia cultriformis</i>	Guava	<i>Psidium littorale</i>
Arborvitae, Eastern	var: <i>Teehny</i> <i>Thuja occidentalis</i>	Guava, pineapple	<i>Feijoa sellowiana</i>
Arborvitae, berkman's, Oriental	<i>Thuja Orientalis</i>	Gum, blue	<i>Eucalyptus globulus</i>
Ash, green	<i>Fraxinus pennsylvanicum</i>	Gum, lemon-scented	<i>Eucalyptus citriodera</i>
Ash, mountain	<i>Sorbus aucuparia</i>	Gum, red box	<i>Eucalyptus polyanthemus</i>
Ash, mountain	<i>Sorbus americana decora</i>	Hackberry, common	<i>Celtis occidentalis</i>
Ash, white	<i>Fraxinus americana</i>	Hemlock, Canadian	<i>Tsuga canadensis</i>
Basswood, American	<i>Tilia americana</i>	Holly, Chinese	var: <i>Bufordii</i> , <i>Rotunda</i> <i>Ilex cornuta</i>
Berkman's, Oriental	<i>Thuja orientalis</i>	Holly, hybrid	var: <i>Nellie Stevens</i> <i>Ilex spares</i>
Birch	<i>Betula</i> sp.	Holly, Japanese	var: <i>convexa</i> , <i>compacta</i> , <i>helleri</i> , <i>hoogendorn</i> <i>Ilex crenata</i>
Birch, Asian white	var: <i>Japonica</i> <i>Betula platyphylla</i>	Holly, yaupon	<i>Ilex vomitoria</i>
Birch, European white	<i>Betula pendula</i>	Ironbark, red	<i>Eucalyptus sideroxylon</i>
Birch, paper	<i>Betula papyrifolia</i>	Jacaranda	<i>Jacaranda mimosifolia</i>
Birch, river, black or red	<i>Betula nigra</i>	Kentucky coffee tree	<i>Gymnocladus dioicus</i>
Black locust	<i>Robinia pseudoacacia</i>	Larch, European	<i>Larix europa</i>
Bottle-brush	<i>Callistemon lanceolatus</i>	Laurel, Indian	<i>Ficus microcarpa nitida</i>
Bottle tree	<i>Brachychiton populneus</i>	Linden	<i>Tilia americana</i>
Brisbane box tree	<i>Tristania conferta</i>	Linden, littleleaf	<i>Tilia cordata</i>
Cajeput tree	<i>Melaleuca quinquenervia</i>	Locust, honey	<i>Gleditsia triacanthos inermis</i>
Carob tree	<i>Ceratonia siliqua</i>	Loquat	<i>Eriobotrya japonica</i>
Carrot wood	<i>Cupaniopsis anacardioides</i>	Magnolia, Southern	<i>Magnolia grandiflora</i>
Catalpa, Southern	<i>Catalpa bignonioides</i>	Maple, red	<i>Acer rubrum</i>
Cherry, black	<i>Prunus serotina</i>	Maple, Japanese	<i>Acer palmatum</i>
Cherry, Carolina	<i>Prunus caroliniana</i> 'compacta'	Maple, silver	<i>Acer saccharinum</i>
Crabapple, flowering	var: <i>dalgo</i> , <i>radiant</i> , <i>red</i> <i>splendor</i> , <i>royalty</i> , <i>vanguard</i> , <i>sylvestris</i> , <i>domestic</i> <i>Malus</i> sp.	Mimosa tree	<i>silk tree</i> <i>Albizia julibrissin</i>
Cypress, false	<i>Chamaecyparis pisifera</i>	Myoporum	<i>Myoporum laetum</i>
Cypress, leyland	<i>Cupressocyparis leylandii</i>	New Zealand Christmas tree	<i>Metrosideros excelsus</i>
Cypress, Italian	<i>Cupressus sempervirens</i>	Oak	<i>Quercus</i>
Dogwood, flowering	<i>Cornus florida</i>	Oak, red*	<i>Quercus rubra</i>
Dogwood, silky	<i>Cornus amonum</i>	Oak, water	<i>Quercus nigra</i>
Dogwood, pagoda	<i>Cornus alternifolia</i>	Oak, white*	<i>Quercus alba</i>
Elm, Chinese evergreen	<i>Ulmus parvifolia</i>	Oak, willow	<i>Quercus phellos</i>
Eucalyptus	<i>Eucalyptus robusta</i> , <i>lehmannii</i> , <i>nicholi granis</i>	Olive tree	<i>Olea europaea</i>
Fir	<i>Abies</i> sp.	Olive, Russian	<i>Elaeagnus angustifolia</i>
Fir, Douglas	<i>Pseudotsuga menziesii</i>	Orchid tree, purple	<i>Bauhinia variegata</i>
Fir, Frasier	<i>Abies fraseri</i>	Osage orange	<i>Maclura pomifera</i>
Fir, white	<i>Abies concolor</i>	Palm, Mediterranean fan	<i>Chamaerops humilis</i>
Goldenrain tree	<i>Koelreuteria paniculata</i>	Palm, pygmy date	<i>Phoenix roebelenii</i>
		Palm, queen	<i>Arecastrum romanzoffianum</i>
		Palm, sago	<i>Cycas revoluta</i>

**Table 8. Tolerant Plant Species (continued)**

Common Name	Scientific Name	Common Name	Scientific Name
<b>Tree Species (continued)</b>		<b>Tree Species (continued)</b>	
Palm, windmill	<i>Tracheocarpus fortunei</i>	Sycamore	<i>Platanus occidentalis</i>
Palo verde, green	<i>Parkinsonia aculeata</i>	Tea tree, Australian	<i>Leptospermum laevigatum</i>
Paulownia royal	<i>Paulownia tomentosa</i>	Tipu tree	<i>Tipuana tipu</i>
Pear, common	<i>Pyrus communis</i>	Walnut, black	<i>Juglans nigra</i>
Pear, evergreen	<i>Pyrus kawakamii</i>	Weeping fig, exotica	<i>Ficus benjamina</i>
Pear, Ussurian	<i>Pyrus ussuriensis</i>	Willow	<i>Salix matsudana tortuosa</i>
Pepper, Brazilian	<i>Schinus terebinthifolius</i>	Willow, Australian	<i>Geijera parviflora</i>
Pine, Aleppo	<i>Pinus halepensis</i>	Willow, desert	<i>Pittosporum phillyraeoides</i>
Pine, Austrian	<i>Pinus nigra</i>	Willow, peppermint	<i>Agonis flexuosa</i>
Pine, Canary Island	<i>Pinus canariensis</i>	Yate, bushy	<i>Eucalyptus lehmannii</i>
Pine, Caribbean slash	<i>Pinus caribean</i>	Yew, English	<i>Taxus baccata</i>
Pine, Italian stone	<i>Pinus pinea</i>	* In limited testing with these plants, some unacceptable phyto-toxicity has been found, though usually occurring at application rates above those recommended on the product label.	
Pine, jack	<i>Pinus banksiana</i>	<b>Shrub Species</b>	
Pine, Japanese black	<i>Pinus thunbergii</i>	Abelia, glossy	<i>Abelia grandiflora</i>
Pine, Japanese white	<i>Pinus parviflora</i>	Acacia, Bailey	<i>Acacia baileyana</i>
Pine, loblolly	<i>Pinus taeda</i>	Acacia, knife leaf	<i>Acacia cultriformis</i>
Pine, Mugho	<i>Pinus mugho</i>	Acacia, prostrate	<i>Acacia redolens</i>
Pine, ponderosa	<i>Pinus ponderosa</i>	Acacia, Sydney golden wattle	<i>Acacia longifolia</i>
Pine, Western yellow	<i>Pinus ponderosa</i>	Andromeda	<i>Pieris japonica</i>
Pine, red	<i>Pinus resinosa</i>	Arborvitae, Oriental	<i>Platycladus orientalis</i>
Pine, Scotch	<i>Pinus sylvestris</i>	Arrowwood, Southern	<i>Viburnum dentatum</i>
Pine, shore	<i>Pinus contra</i>	Azalea*	var: snow <i>Rhododendron</i> sp.
Pine, slash	<i>Pinus ellottii</i>	Azalea, mollis hybrid	<i>R. x kosterianum</i>
Pine, Southern	<i>Pinus palustris</i>	Azalea, Northern lights hybrid	<i>R. x kosterianum x R. prinophyllum</i>
Pine, Virginia	<i>Pinus virginiana</i>	Bamboo, heavenly	<i>Nandina domestica</i>
Pine, white	<i>Pinus strobus</i>	Barberry, Japanese	<i>Berberis thunbergii</i>
Pine, yew	<i>Podocarpus macrophyllum</i>	Barberry, Korean	<i>Berberis koreana</i>
Plum, wild	<i>Prunus americana</i>	Barberry, redleaf	<i>Berberis virginian</i>
Poplar, hybrid	<i>Populus alba</i>	Bird of Paradise bush	<i>Caesalpinia gillesil</i>
Popular, tulip tree	<i>Liriodendron tulipifera</i>	Bluebeard	<i>Caryopteris clandonensis</i>
Popular, yellow	<i>Liriodendron tulipifera</i>	Boxwood, African	<i>Myrsine africana</i>
Purpleleaf, Bailey acacia	<i>Acacia baileyana</i>	Boxwood, common	<i>Buxus sempervirens</i>
Redwood, coast	<i>Sequoia sempervirens</i>	Boxwood, Japanese	var: Japonica <i>Buxus microphylla</i>
Sandcherry, Western	<i>Prunus besseyi</i>	Buckthorn, Alder	<i>Rhamnus frangula</i>
Sensitive plant	<i>Mimosa pudica</i>	Buckthorn, Glossy	<i>Rhamnus frangula</i>
Silk tree	<i>Albizia julibrissin</i>	Camellia	<i>Camellia japonica</i> <i>Camellia sasanqua</i>
Spruce, Black Hills	var: <i>Densata</i> <i>Picea glauca</i>	Cedar, Eastern red	var: <i>Pyramidiiformus, canearl</i>
Spruce, Colorado blue	<i>Picea pungens</i>	Cedar	<i>Juniperus virginiana</i>
Spruce, Norway	<i>Picea abies</i>		
Spruce, white	<i>Picea glauca</i>		
Strawberry tree	<i>Arbutus unedo</i>		
Sumac, African	<i>Rhus lancea</i>		
Sumac, standard	<i>Rhus lancea</i>		
Sweet gum	<i>Liquidambar styraciflus</i>		

**Table 8. Tolerant Plant Species (continued)**

Common Name	Scientific Name	Common Name	Scientific Name
<b>Shrub Species (continued)</b>		<b>Shrub Species (continued)</b>	
Cherry, brush	<i>Eugenia myrtifolia</i>	Jojoba	<i>Simmondsia chinensis</i>
Cherry, Manchu, Nanking	<i>Prunus tomentosa</i>	Juniper, Chinese	var: Maneyi, Old Gold, Phtzerana, Sea Green, Hekii, Nana, Torulosa, Phtzerana (Aurea, Pfitzer, Golden Pfitzer)
Chokecherry sp.	<i>Aronia meloelata</i>		<i>Juniperus chinensis</i>
Copper plant, Caribbean	<i>Euphoria cotinifolia</i>	Juniper, creeping	var: Bluechip, Hughes, Plumosa, Prince of Wales, Webberi, Wiltonii, Bar Harbor, Andorra, Variegata, Youngstown Blue Rug
Cotoneaster, bearberry	<i>Cotoneaster dammerii</i>		<i>Juniperus horizontalis</i>
Cotoneaster, cranberry	<i>Cotoneaster apiculata</i>		<i>Juniperus sp.</i>
Cotoneaster, 'lowfast' Peking	<i>Cotoneaster acutifolia</i>	Juniper, Ozark	var: Blue Heaven, Welchii, Wichita Blue, Medova, Moffet, Pyramidal Green, Springtime, Admiral
Coyote bush	<i>Baccharis pilularis</i>	Juniper, Rocky Mountain	<i>Juniperus scopulorum</i>
Cranberry bush, American	<i>Viburnum trilobum</i>		var: Skandia, Arcadia, Broadmoor, Buffalo, Pepin
Cranberry bush, golden	<i>Viburnum opulus aureum</i>	Juniper, shore	<i>Juniperus sabina</i>
Crape myrtle	<i>Lagerstromia indica</i>		var: <i>Compacta</i>
Currant, alpine	<i>Ribes alpinum</i>		<i>Juniperus conferta</i>
Dogwood, red osier	<i>Cornus stolonifera</i>	Juniper, tam	var: <i>Tamariscifolia</i>
Elaeagnus	<i>Elaeagnus umbellata</i>		<i>Juniperus sabina</i>
Escallonia	<i>Escallonia fradesii</i> <i>Escallonia rubia</i>	Lantana, purple trailing	<i>Lantana montevidensis</i>
Euonymus	<i>Euonymus japonica</i>	Laurustinus	<i>Viburnum tinus</i>
Euonymus, evergreen	var: golden, silver king	Lemonade berry	<i>Rhus integrifolia</i>
Euonymus, winged	<i>Euonymus alata</i>	Lilac, common purple	<i>Syringa vulgaris purpura</i>
Fig, creeping	<i>Ficus repens</i>	Liriope, green	<i>Liriope muscari</i>
Firethorn	<i>Pyracantha graberii</i>	Liriope, variegated	<i>Liriope muscari</i>
Forsythia, greenstem	<i>Forsythia viridissima bronxeniss</i>	Mickey Mouse bush	<i>Ochna serrulata</i>
Flax, New Zealand	<i>Phormium tenax</i>	Mirror plant	<i>Coprosma repens</i>
Fuschia, Australian	<i>Correa pulchella</i>	Mock orange	<i>Pittosporum tobira</i>
Gardenia	var: Mystery, Radicans <i>Gardenia augusta</i> <i>Gardenia jasminoides</i>	Mountain lilac, Carmel creeper	<i>Ceanothus griseus</i>
Gardenia, dwarf	var: <i>Veitchii</i> <i>Gardenia jasminoides</i>	Myrtle, dwarf	<i>Myrtus communis compacta</i>
Gold vine, Guinea	<i>Hibbertia scandens</i>	Nandina, heavenly bamboo	<i>Nandina domestica</i>
Hakea	<i>Hakea proteacea</i>	Nannyberry	<i>Viburnum lantago</i>
Hawthorn, Indian	<i>Phaphiolepis indica</i>	Ninebark	<i>Physocarpus opulifolius</i> var: <i>Aureus</i>
Hibiscus, blue	<i>Alyogyne huegelli</i>		<i>Physocarpus opulifolius nanus</i>
Hibiscus, Chinese	<i>Hibiscus rosa-sinensis</i>	Oleander	<i>Nerium oleander</i>
Holly, dwarf Burford	var: <i>Burfordii</i> <i>Nana</i> <i>Ilex cornuta</i>	Orchid, rockrose	<i>Cistus purpureus</i>
Honeysuckle, bush	<i>Diervilla lonicera</i>	Oregon grape	<i>Mahonia aquifolium</i>
Honeysuckle, cape	<i>Tecomaria capensis</i>	Osmanthus, holly-leaf	<i>Osmanthus heterophyllum</i>
Hydrangea	<i>Hydrangea macrophylla</i>	Osmanthus, sweet olive	<i>Osmanthus fragrans</i>
Jasmine, Asiatic	<i>Trachelospermum asiaticum</i>		
Jasmine, orange	<i>Murraya paniculata</i>		
Jasmine, star	<i>Trachelospermum jasminoides</i>		
Jasmine, winter	<i>Jasmine nudiflorum</i>		
Jessamine, Carolina	<i>Gelsemium sempervirens</i>		

**Table 8. Tolerant Plant Species (continued)**

Common Name	Scientific Name	Common Name	Scientific Name
<b>Shrub Species (continued)</b>		<b>Shrub Species (continued)</b>	
Palm, natal	var: Green carpet tuttle <i>Carissa grandiflora</i>	Tea tree, New Zealand	var: Red glow <i>Leptospermum scoparium</i>
Pampas grass	<i>Cortaderia selloana</i>	Texas ranger	<i>Leucophyllum frutescens</i>
Photinia	<i>Photinia</i> sp.	Toyon, California holly	<i>Hetermeles arbutifolia</i>
Photinia, Fraser	<i>Photinia fraser</i>	Trumpet vine, pink	<i>Pandorea rosea</i>
Pink lady	<i>Rahioleis indica</i>	Veronica	<i>Hebe 'Coed'</i>
Pink powder puff	<i>Calliandra haematocephala</i>	Viburnum, Japanese	<i>Viburnum japonicum</i>
Pittosporum, variegated Japanese	<i>Pittosporum tobira variegata</i>	Viburnum, Sandankwa	<i>Viburnum suspensum</i>
Plumbago, cape	<i>Plumbago capensis</i>	Wayfaring tree	<i>Viburnum lantanoides</i>
Podocarpus, yew	<i>Podocarpus macrophyllus</i>	Weeping fig, exotica	<i>Ficus benjamina</i>
Potentilla*	(var: Jackmanni, K. VanDyke) <i>Potentilla fruticosa</i> <i>Potentilla verna</i>	Wheeler dwarf, Variegated	var: Wheller <i>Pittosporum tobira</i>
Princess flower	<i>Tibouchina urvilleana</i>	Yellow bells	<i>Tecoma stans</i>
Privet	<i>Ligustrum indica</i>	Yesterday-Today-and-Tomorrow	<i>Brunfelsia calycina</i>
Privet, gloss	var: Lake Tresca <i>Ligustrum lucidum</i>	Yew	<i>Taxus cuspidata vigatum</i>
Privet, Japanese*	<i>Ligustrum japonicum</i>	* In limited testing with these plants, some unacceptable phyto-toxicity has been found, though usually occurring at application rates above those recommended on the product label.	
Privet, Texas	<i>Ligustrum texanum</i>	<b>Ornamentals and Bedding Plants</b>	
Privet, waxleaf	<i>Ligustrum japonicum</i>	Alyssum	<i>Alyssum</i> sp.
Purple hop bush	<i>Dodonaea viscosa</i>	Asparagus, myers	var: Meyeri <i>Asparagus densiflorus</i>
Pyracantha	<i>Pyracantha graberii</i>	Asparagus, sprenger	var: Sprengeri <i>Asparagus densiflorus</i>
Rhododendron - Azalea	<i>Rhododendron</i> sp. var: Hinocrimson, Hershey red, Coral blue, Hinodigiri, Christmas cheer, Pink ruffle, Formosa flame, Delaware Valley white, New white	Aster, New York	<i>Aster novi-belgii</i>
Sandcherry, purpleleaf	<i>Prunus cistena</i>	Aster, stokes	var: Blue, White <i>Stokesia cyanae</i>
Serviceberry, Allegheny	<i>Amelanchier laevis</i>	Baby's breath	var: Bristo fairy <i>Gypsophila paniculata</i>
Serviceberry, Saskatoon	var: Regent <i>Amelanchier alnifolia</i>	Begonia	<i>Begonia semperflorens</i>
Silver king	<i>Euonymus japonica</i>	Bellflower, Tussock	var: Canterbury bells <i>Campanula carpatica</i>
Sky flower, Brazilian	<i>Duranta stenostachya</i>	Bittersweet, American	<i>Calatrus scandens</i>
Snowball bush	<i>Viburnum opulus sterilis</i>	Black-eyed Susan	var: Goldilocks <i>Rudbeckia hirta</i>
Spindle tree	<i>Euonymus kiautschovica</i>	Bleeding heart	<i>Dicentra spectabilis</i>
Spiraea	<i>Spiraea vanhouteii</i> var: Anthony waterer, Froebellii, goldflame <i>Spiraea bumalda</i> var: fairy queen <i>Spiraea trilobataiovica</i> var: Snowbound <i>Spiraea nipponicaiovica</i>	Butterfly weed	<i>Asclepias tuberosa</i>
Star plant, lavender	<i>Grewia occidentalis</i>	Bower vine	<i>Pandorea jasminoides</i>
Tea tree, Australian	<i>Leptospermum laevigatum</i>	Cactus, barrel	<i>Echinocactus</i> sp.
		Candytuft	<i>Iberis sempervirens</i> <i>Iberis amara</i>
		Canna	<i>Canna</i> sp.
		Cassia, feathery	<i>Cassia artemisioides</i>
		Chrysanthemum, Marguerite	<i>Chrysanthemum frutescens</i> <i>Chrysanthemum indicum</i>

Table 8. Tolerant Plant Species (continued)

Common Name	Scientific Name	Common Name	Scientific Name
<b>Ornamentals and Bedding Plants (continued)</b>		<b>Ornamentals and Bedding Plants (continued)</b>	
Cockscomb	<i>Celosia argentea</i> <i>Canna</i>	Iris	<i>Iris</i> sp.
Coleus	<i>Coleus blumei</i>	Iris, African	<i>Dietes bicolor</i>
Coneflower, purple	var: Gloriosa Dairy <i>Echinacea purpurea</i>	Ivy, grape	var: Ellen Danica <i>Cissus rhombifolia</i>
Coralbells	<i>Heuchera sanguinea</i>	Jack-in-the-Pulpit	<i>Arisaemia pusillum</i> Mrs. Bradshaw Improved
Coreopsis	var: Sunray <i>Coreopsis lanceolata</i>	Jade plant	<i>Crassula argentea</i>
Cup of gold vine	<i>Solandra maxima</i>	Jasmine, Madagascar	<i>Stephanotis floribunda</i>
Daffodil	<i>Narcissus</i> spp.	Lamb's ear	<i>Stachys lanata</i>
Dahlia	<i>Dahlia pinnata</i>	Lavender, English	<i>Lavandula vera</i>
Daisy bush	<i>Euryops pectinatus</i> , Blue <i>Felicia amellioides</i>	Lavender, French	<i>Lavandula dentata</i>
Daisy, shasta	var: Alaska <i>Chrysanthemum maximum</i>	Lavender, cotton	<i>Santolina chamaecyparissus</i>
Daylily	<i>Hemerocallis hybrids</i>	Lilac, Chinese	<i>Syringa chinensis</i>
Dianthus	<i>Dianthus deltoides</i>	Lilac, common purple	var: Charles Joly, Ludwig Spaeth, Jay tree <i>Syringa vulgaris purpurpa</i>
Dragonhead, false	<i>Physostegia virginiana</i>	Lilac, Meyer	var: Palibin <i>Syringa</i> sp.
Dusty Miller	<i>Centaurea cineraria</i>	Lilac, Korean	var: Miss Kim <i>Syringa patula</i>
Fern, sprenger asparagus	<i>Asparagus densiflorus</i> <i>Sprengerii</i>	Lilac, mountain	<i>Ceanothus griseus</i>
Fescue, blue	<i>Festuca ovina</i>	Lily-of-the-Nile, Peter Pan	<i>Agapanthus africanus</i>
Flowering tobacco	<i>Nicotiana</i> sp.	Lily-of-the-Valley	<i>Convallaria majalis</i>
Fountain grass, red	<i>Pennisetum setaceum</i>	Lobelia	<i>Lobelia erinus</i>
Gazania	<i>Gazania ringens leucolaena</i> <i>Gazania</i> sp.	Marigold	<i>Tagetes</i> sp.
Geranium	<i>Geranium</i> sp.	Mirror plant	<i>Coprosma baureri</i>
Geranium, Martha Washington	<i>Pelargonium domesticum</i>	Mirror plant, variegated	<i>Coprosma repens</i>
Gerbera daisy	<i>Gerbera jamesonii</i>	Moneywort, creeping Jenny	<i>Lysimachia nummularia</i>
Geum	var: Lady Strathedon, Mrs. Bradshaw, Mrs. Bradshaw Improved <i>Geum quellyon</i>	Moss, rose	<i>Portulaca grandiflora</i>
Gladiolus	<i>Gladiolus</i> sp.	Moss, sandwort	<i>Arenaria verna</i>
Heather, false	<i>Cuphea hyssopifolia</i>	Pansy, Johnny-jump-up	<i>Viola tricolor</i>
Honeysuckle, amar	<i>Lonicera maachii</i>	Pepper, ornamental	<i>Capsicum</i> sp.
Honeysuckle, fly	var: Emerald Mound, Clavey's Dwarf <i>Lonicera xylosteum</i>	Periwinkle, Madagascar	<i>Catharanthus roseus</i> <i>Vinca minor</i>
Honeysuckle, Japanese	<i>Lonicera japonica</i>	Petunia	<i>Petunia</i> sp.
Honeysuckle, morrow	<i>Lonicera morrowii</i>	Phlox, perennial	<i>Phlox paniculata</i>
Honeysuckle, tatarian	var: Zabeli <i>Lonicera tatarica</i>	Plantain lily	<i>Hosta</i> sp.
Hopseed bush, purple	var: <i>Purpurea</i> <i>Dodonaea viscosa</i>	Purple loosestrife	var: Morden's Gleam <i>Lythrumvirgatum</i>
Impatiens	<i>Impatiens</i> sp.	Raspberry ice	<i>Bougainvillea</i> sp.
		Sage	<i>Salvia greggii</i>
		Sea pinks, thrift	<i>Armeria maritima</i>
		Sedum, stonecrop	<i>Sedum x rubrotinctum</i> Lavender cotton
		Shrimp plant	<i>Justicia brandegeana</i>
		Sky flower, Brazilian	<i>Duranta stenostachya</i>

**Table 8. Tolerant Plant Species (continued)**

Common Name	Scientific Name	Common Name	Scientific Name
<b>Ornamentals and Bedding Plants (continued)</b>		<b>Ground Covers (continued)</b>	
Snail vine	<i>Vigna caracalla</i>	Ivy, English	<i>Hedera helix</i> var: California
Snapdragon	<i>Antirrhinum majus</i>	Ivy, grape	var: Ellen Danica <i>Cissus rhombifolia</i>
Snow-in-summer*	<i>Cerastium tomentosum</i>	Ivy, Hahn's	var: Hahnii <i>Hedera helix</i>
Speedwell, spike	<i>Veronica spicata</i>	Lantana, lavender	<i>Lantana montevidensis</i>
Statice, perennial	<i>Limonium perezii</i>	Lily-turf, big blue	<i>Liriope muscari</i>
Stock	<i>Mattiola incana</i>	Lippla	<i>Phyla nodiflora</i>
Sweet grass	<i>Acorus gramineus</i>	Mondo grass	<i>Ophiopogon japonicus</i> var: <i>Prostratum</i>
Sweet William	<i>Dianthus barbatus</i>	Myoporum	<i>Myoporum parvifolium</i>
Transvaal daisy	<i>Gerbera jamesonii</i>	Pachysandra	<i>Pachysandra terminalis</i>
Trumpet vine, blood red	<i>Distictis buccinatoria</i>	Periwinkle	<i>Vinca major</i>
Trumpet vine, lavender	<i>Clytostoma callistegioides</i>	Plumbago, dwarf	<i>Ceratostigma plumbaginoides</i>
Trumpet vine, pink	<i>Pandorea rosea</i>	Pork and beans	<i>Sedum rubrotinctum</i>
Tulip	<i>Tulipa</i> spp.	Rosea ice plant	<i>Drosanthemum floribundum</i> var: <i>Prostratus</i>
Verbena	<i>Verbena</i> sp.	Rosemary, dwarf	<i>Rosmarinus officinalis</i>
Wandering Jew	<i>Tradescantia</i> sp.	Rupture wort	<i>Herniaria glabra</i>
Wisteria	<i>Wisteria sinensis</i>	St. Johnswort, creeping	<i>Hypericum calycinum</i>
Yarrow	var: Cerise Queen <i>Achillea Millefolium</i>	Stonecrop, sedum	<i>Sedum rubrotinctum</i>
Yarrow, debutante	<i>Achillea taygetea</i> v.	Verbena	<i>Verbena officinalis</i>
Yellow trumpet	<i>Macfadyena unguis-cati</i>	Verbena, blue	<i>Verbena peruviana</i>
Zinnia	<i>Zinnia elegans</i>		
* In limited testing with these plants, some unacceptable phytotoxicity has been found, though usually occurring at application rates above those recommended on the product label.		<b>Wildflowers</b>	
<b>Ground Covers</b>		African daisy	<i>Dimorphotheca aurantiaca</i>
Aaron's beard	<i>Hypericum calycinum</i>	Baby blue eyes	<i>Nemophila insignis</i>
Aptenia	var: Red apple <i>Aptenia cordifolia</i>	Baby snapdragon	<i>Linaria macrocanna</i>
Bergenia, winter-blooming	<i>Bergenia crassifolia</i>	Baby's breath	<i>Gypsophila muralis</i>
Bugleweed	<i>Ajuga reptans</i>	Bachelor button	<i>Centaurea cyanus</i>
Capeweed	<i>Arctotheca calendula</i>	Bird's eyes	<i>Gilia tricolor</i>
Carpathian, harebell	<i>Campanula carpatica</i>	Black-eyed Susan	<i>Rudbeckia hirta</i>
Cinquefoil, spring	<i>Potentilla tabernaemontani</i>	Blanketflower	<i>Gaillardia aristata</i>
Coyote brush	var: Twin peaks <i>Baccharis pilularis</i>	Blue fescue	<i>Festuca ovina glauca</i>
Crownvetch	<i>Coronilla varia</i>	Blue flax	<i>Linum lewisii</i>
Cushion bush	<i>Calocephalus brownii</i>	Butterflyweed	<i>Asclepias tuberosa</i>
Daisy, freeway	<i>Osteospermum</i>	Calendula	<i>Calendula officinalis</i>
Daisy, trailing African	<i>Osteospermum</i>	California poppy	<i>Eschscholzia californica</i>
Daisy, white African	<i>Osteospermum fruticosum</i> <i>alba</i>	Calliopsis	<i>Coreopsis tinctoria</i>
Gazania, trailing	<i>Gazania regens leucolaena</i>	Candytuft	<i>Iberis sempervirens</i>
Green carpet	<i>Herniaria glabra</i>	Carnation	<i>Dianthus</i>
Ivy, Algerian	<i>Hedera canaiensis</i>	Catchfly	<i>Silene armeria</i>
Ivy, Boston	<i>Parthenocissus tricuspidata</i>	Chicory	<i>Chicory intybus</i>
		Chinese houses	<i>Collensia heterophylla</i>
		Columbine	<i>Aquilegia</i> spp.

**Table 8. Tolerant Plant Species (continued)**

Common Name	Scientific Name	Common Name	Scientific Name
<b>Wildflowers (continued)</b>		<b>Wildflowers (continued)</b>	
Corn poppy	<i>Papaver rhoeas</i>	Sweet William	<i>Dianthus barbatus</i>
Cornflower	<i>Centaurea cyanus</i>	Texas bluebonnet	<i>Lupinus texensis</i>
Cosmos	<i>Cosmos bipinnatus</i>	Tickseed	<i>Coreopsis lanceolata</i>
Creeping daisy		Tidy tips	<i>Layia platyglossa</i>
Dames rocket	<i>Hesperis matronalis</i>	Virginian stock	<i>Malcolmia maritima</i>
Drummond phlox	<i>Phlox drummondii</i>	Wallflower	<i>Cheiranthus allionii</i>
Dwarf primrose	<i>Oenothera</i> sp.	White yarrow	<i>Achillea millefolium</i>
Firewheel	<i>Gaillardia pulchella</i>		
Five spot cornflower	<i>Centaurea</i> sp.		
Foxglove	<i>Digitalis purpurea</i>		
Godetia	<i>Clarkia amoena</i>		
Grayhead coneflower	<i>Echinacea pallida</i>		
Hard fescue	<i>Festuca longifolium</i>		
Indian blanket	<i>Gaillardia pulchella</i>		
Indian paintbrush	<i>Castilleja coccinea</i>		
Jewels of Opar	<i>Talinum paniculatum</i>		
Johnny-jump-up	<i>Viola pedata</i>		
Lance-leaved coreopsis	<i>Coreopsis lanceolata</i>		
Lemon mint	<i>Monarda citriodora</i>		
Liatris	<i>Liatris spicata</i>		
Lupine	<i>Lupinus</i> spp.		
Moss verbena	<i>Verbena tenuisecta</i>		
New England aster	<i>Aster novi-anglae</i>		
Nodding catchfly pink	<i>Silene</i> sp.		
Oxeye daisy	<i>Chrysanthemum leucanthemum</i>		
Painted daisy	<i>Chrysanthemum carinatum</i>		
Perennial lupine	<i>Lupinus perennis</i>		
Plains coreopsis	<i>Coreopsis tinctoria</i>		
Poor man's weather glass			
Prairie aster	<i>Machaeranthera tanacetifolia</i>		
Purple coneflower	<i>Echinacea purpurea</i>		
Purpleknot toadflax	<i>Linaria</i> sp.		
Queen Anne's lace	<i>Daucus carota</i>		
Red ribbons	<i>Clarkia concinna</i>		
Rocket larkspur	<i>Delphinium ajacis</i>		
Sainfoin	<i>Conobrychis vicifolia</i>		
Sand bluebonnet	<i>Lupinus subcarnosus</i>		
Scarlet flax	<i>Linum rubrum</i>		
Showy primrose	<i>Oenothera speciosa</i>		
Siberian wallflower	<i>Cheiranthus</i> spp.		
Spurred snapdragon	<i>Linaria macrocanna</i>		
Stock	<i>Matthiola maritima</i>		
Sulfur cosmos	<i>Cosmos sulfureus</i>		
Sweet alyssum	<i>Lobularia maritima</i>		

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