

7969-317

12/16/2010

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

DEC 16 2010

Mr. Charles Levey
BASF Corporation
26 Davis Dr
Research Triangle Park, NC 27709

Subject: Notification per PR Notice 98-10
Segment Herbicide (formerly Segment T/O)
EPA Reg. No. 7969-317
Application dated December 2, 2010

Dear Mr. Levey:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated December 2, 2010 for the product 7969-317. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

Please note that the primary brand name "Segment T/O" has been replaced with "Segment," and it is now reflected in our records.

If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Tompkins", written over the typed name and title.

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

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number BASF Corporation/7969-317	2. EPA Product Manager Jim Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) BASF Corporation/Segment T/O	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) BASF Corporation 26 Davis Dr. Durham, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: NOTIFICATION EPA Reg. No. _____ Product Name _____ DEC 16 2010	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of 'Change in Primary Brand Name' per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> On Container	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Charles T. Levey		Title Product Registration Manager	Telephone No. (Include Area Code) 919-547-2059
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Product Registration Manager	
4. Typed Name Charles T. Levey charles.levey@basf.com		5. Date December 2, 2010	



The Chemical Company

December 2, 2010


Mr. Jim Tompkins (PM 25)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: Label Notification for Segment T/O (EPA Reg. No. 7969-317) per PR Notice 98-10

Dear Mr. Tompkins,

BASF Corporation is submitting a label notification compliant with PR Notice 98-10. With this notification we are advising the Agency that we want to change the Primary Brand Name of Segment T/O to Segment. Please call me at 919-547-2059 or email at charles.levy@basf.com, if you have any questions in regards to this submission. Thanks in advance for your cooperation.

Respectfully,


Charles T. Levey
Product Registration Manager
BASF Corporation

® Registered Trademark of BASF

BASF Corporation
Agricultural Products
26 Davis Drive
Research Triangle Park, NC 27709
Tel: (800) 669-1770
www.agproducts.basf.com

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segment[®]

HERBICIDE

NOTIFICATION

DEC 16 2010

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. 7969-317

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).

Net Contents:

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

 **BASF**
The Chemical Company

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

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® 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** 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**. A program for total vegetation suppression may necessitate the use of a broadleaf herbicide. Any combination treatment using **Segment**, either tank mixed or sequential, should be tested to determine if seedhead 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 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 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** 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** 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** can be used safely before broad use by applying the recommended use rate of **Segment** 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** (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** 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**. 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**. 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.

Application Instructions

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® 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 can be applied using tank-type sprayers, knapsack sprayers, high-volume equipment with handguns, or other suitable nozzle arrangements. Prepare a solution of **Segment** 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.

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Table 1. Segment® herbicide Application Rates for Annual Grass Control

Grasses Controlled		Maximum Rate per Application ¹	
Common Name	Scientific Name	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 ⁵	<i>Bromus tectorum</i>	0.8 fluid ounce per	1.4 fluid ounces per
Crabgrass, large ^{2,3}	<i>Digitaria sanguinalis</i>	1,000 square feet	1,000 square feet
Crabgrass, smooth ^{2,3}	<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 ^{2,3}	<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 ⁵	<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>		

¹ See **Crop-specific Information** for crop-specific maximum seasonal use rates.² Up to 4"³ In seedling centipedegrass and fine fescue, use 1.5 pints per acre or 0.5 fluid ounce per 1,000 square feet.⁴ Up to 6"⁵ Up to 8"

* Not recommended in Arizona or western New Mexico.

Table 2. Segment® herbicide Application Rates for Perennial Grass Control

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

¹ See **Crop-specific Information** for crop-specific maximum seasonal use rates.² Up to 4"³ 6" stolon maximum**Table 3. Spot Treatment Application Rates**

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

¹ Use 1.5% for wirestem muhly.**Table 4. Spot Treatment Dilution**

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

Additives

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

Tank Mixing Information

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** 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**. 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** according to rates in **Table 1** and **Table 2**.

Tank Mix Partners

The following herbicides may be tank mixed with **Segment** 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** 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)** - 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)**
6. **Water-soluble additives**
7. **Remaining quantity water**

Maintain constant agitation during application.

Restrictions and Limitations

- **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** label.
- **DO NOT** use treated vegetation as pasture, hay, feed, or forage.
- **DO NOT** apply **Segment** 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** 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® 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** can be used safely prior to broad use by applying the specified use rate of **Segment** 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</i> (A. nobilis)
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 + Goal® 2XL herbicide

Segment: 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**, 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** 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 + Stinger® herbicide

Segment: 0.5 to 1.5 pints per acre

Stinger: Refer to manufacturer's label.

A postemergence tank mix application of **Segment + Stinger** will not only control a broad spectrum of grasses, but also certain broadleaf weeds (such as Canada thistle, clover, vetch, knapweed); **Segment** 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® 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** may be applied as a directed spray away from the foliage of desired plants. **Segment** 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

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 + Basagran® T/O herbicide

Segment: 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 will suppress the initiation and development of the seedheads 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** to tall fescue before the emergence of seedheads 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**.

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

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** to tall fescue per year.

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

Tree Farms

ESTABLISHED TALL FESCUE GROWTH SUPPRESSION

Segment 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** application or injury may occur. Follow the directions on rates and timing closely.

Timing. Apply **Segment® herbicide** to tall fescue after it has had 4 to 6 inches of new growth, before the emergence of seedheads, 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**.

Rate. Apply 3 to 3.75 pints of **Segment** per acre (0.6 to 0.7 ounce per 1,000 square feet). For greater fescue suppression, up to 60 fluid ounces of **Segment** 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** are advised to begin using **Segment** 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 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** at other times of the year will generally result in reduced control of these problem grass weeds. **Segment** does not control annual bluegrass or rat-tail fescue.

Restrictions and Limitations

DO NOT apply **Segment** to desirable tall fescue turf.

Table 7. Application Rates for Pacific Northwest Only

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

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

Tank Mixes

Segment + Basagran® T/O herbicide

Segment: 2.25 pints per acre

Basagran T/O: 2 to 4 pints per acre

A tank mix of **Segment** 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 may be used to control grass in native wildflowers on roadsides and in landscapes.

Segment 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** applications such as those listed in **Table 8.** However, apply **Segment** prior to blooming.

Application Timing

Apply **Segment** to grass after wildflowers have emerged, but not during flowering. Apply **Segment** 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
Tree Species		Tree Species (continued)	
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 citriodora</i>
Ash, mountain	<i>Sorbus aucuparia</i>	Gum, red box	<i>Eucalyptus polyanthemos</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>Ceratonina 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
Tree Species (continued)		Tree Species (continued)	
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 caribaea</i>	Yew, English	<i>Taxus baccata</i>
Pine, Italian stone	<i>Pinus pinea</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.	
Pine, jack	<i>Pinus banksiana</i>		
Pine, Japanese black	<i>Pinus thunbergii</i>	Shrub Species	
Pine, Japanese white	<i>Pinus parviflora</i>	Abelia, glossy	<i>Abelia grandiflora</i>
Pine, loblolly	<i>Pinus taeda</i>	Acacia, Bailey	<i>Acacia baileyana</i>
Pine, Mugho	<i>Pinus mugho</i>	Acacia, knife leaf	<i>Acacia cultriformis</i>
Pine, ponderosa	<i>Pinus ponderosa</i>	Acacia, prostrate	<i>Acacia redolens</i>
Pine, Western yellow	<i>Pinus ponderosa</i>	Acacia,	<i>Acacia longifolia</i>
Pine, red	<i>Pinus resinosa</i>	Sydney golden wattle	
Pine, Scotch	<i>Pinus sylvestris</i>	Andromeda	<i>Pieris japonica</i>
Pine, shore	<i>Pinus contra</i>	Arborvitae, Oriental	<i>Platycladus orientalis</i>
Pine, slash	<i>Pinus ellottii</i>	Arrowwood, Southern	<i>Viburnum dentatum</i>
Pine, Southern	<i>Pinus palustris</i>	Azalea*	var: snow
Pine, Virginia	<i>Pinus virginiana</i>		<i>Rhododendron</i> sp.
Pine, white	<i>Pinus strobus</i>	Azalea, mollis hybrid	<i>R. x kosterianum</i>
Pine, yew	<i>Podocarpus macrophyllus</i>	Azalea, Northern lights hybrid	<i>R. x kosterianum x R. prinophyllum</i>
Plum, wild	<i>Prunus americana</i>	Bamboo, heavenly	<i>Nandina domestica</i>
Poplar, hybrid	<i>Populus alba</i>	Barberry, Japanese	<i>Berberis thunbergii</i>
Popular, tulip tree	<i>Liriodendron tulipifera</i>	Barberry, Korean	<i>Berberis koreana</i>
Popular, yellow	<i>Liriodendron tulipifera</i>	Barberry, redleaf	<i>Berberis virginiana</i>
Purpleleaf, Bailey acacia	<i>Acacia baileyana</i>	Bird of Paradise bush	<i>Caesalpinia gillesii</i>
Redwood, coast	<i>Sequoia sempervirens</i>	Bluebeard	<i>Caryopteris clandonensis</i>
Sandcherry, Western	<i>Prunus besseyi</i>	Boxwood, African	<i>Myrsine africana</i>
Sensitive plant	<i>Mimosa pudica</i>	Boxwood, common	<i>Buxus sempervirens</i>
Silk tree	<i>Albizia julibrissin</i>	Boxwood, Japanese	var: Japonica
Spruce, Black Hills	var: <i>Densata</i>		<i>Buxus microphylla</i>
	<i>Picea glauca</i>	Buckthorn, Alder	<i>Rhamnus frangula</i>
Spruce, Colorado blue	<i>Picea pungens</i>	Buckthorn, Glossy	<i>Rhamnus frangula</i>
Spruce, Norway	<i>Picea abies</i>	Camellia	<i>Camellia japonica</i>
Spruce, white	<i>Picea glauca</i>		<i>Camellia sasanqua</i>
Strawberry tree	<i>Arbutus unedo</i>	Cedar, Eastern red	var: <i>Pyramidiformis, caneari</i>
Sumac, African	<i>Rhus lancea</i>	Cedar	<i>Juniperus virginiana</i>
Sumac, standard	<i>Rhus lancea</i>		
Sweet gum	<i>Liquidambar styraciflua</i>		

Table 8. Tolerant Plant Species (continued)

Common Name	Scientific Name	Common Name	Scientific Name
Shrub Species (continued)		Shrub Species (continued)	
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>		<i>Juniperus scopulorum</i>
Cranberry bush, American	<i>Viburnum trilobum</i>	Juniper, Rocky Mountain	var: Skandia, Arcadia, Broadmoor, Buffalo, Pepin
Cranberry bush, golden	<i>Viburnum opulus aureum</i>		<i>Juniperus sabina</i>
Crape myrtle	<i>Lagerstromia indica</i>	Juniper, shore	var: Compacta <i>Juniperus conferta</i>
Currant, alpine	<i>Ribes alpinum</i>	Juniper, tam	var: Tamariscifolia <i>Juniperus sabina</i>
Dogwood, red osier	<i>Cornus stolonifera</i>		<i>Lantana montevidensis</i>
Elaeagnus	<i>Elaeagnus umbellata</i>	Lantana, purple trailing	<i>Viburnum tinus</i>
Escallonia	<i>Escallonia fradesii</i> <i>Escallonia rubia</i>	Laurustinus	<i>Rhus integrifolia</i>
Euonymus	<i>Euonymus japonica</i>	Lemonade berry	<i>Syringa vulgaris purpurea</i>
Euonymus, evergreen	var: golden, silver king	Lilac, common purple	<i>Liriope muscari</i>
Euonymus, winged	<i>Euonymus alata</i>	Liriope, green	<i>Liriope muscari</i>
Fig, creeping	<i>Ficus repens</i>	Liriope, variegated	<i>Ochna serrulata</i>
Firethorn	<i>Pyracantha graberi</i>	Mickey Mouse bush	<i>Coprosma repens</i>
Forsythia, greenstem	<i>Forsythia viridissima</i> <i>bronzexiss</i>	Mirror plant	<i>Pittosporum tobira</i>
Flax, New Zealand	<i>Phormium tenax</i>	Mock orange	<i>Ceanothus griseus</i>
Fuschia, Australian	<i>Correa pulchella</i>	Mountain lilac, Carmel creeper	
Gardenia	var: Mystery, Radicans <i>Gardenia augusta</i> <i>Gardenia jasminoides</i>	Myrtle, dwarf	<i>Myrtus communis compacta</i>
Gardenia, dwarf	var: Veitchii <i>Gardenia jasminoides</i>	Nandina, heavenly bamboo	<i>Nandina domestica</i>
Gold vine, Guinea	<i>Hibbertia scandens</i>	Nannyberry	<i>Viburnum lantago</i>
Hakea	<i>Hakea proteacea</i>	Ninebark	<i>Physocarpus opulifolius</i> var: Aureus <i>Physocarpus opulifolius nanus</i>
Hawthorn, Indian	<i>Phaphiolepis indica</i>	Oleander	<i>Nerium oleander</i>
Hibiscus, blue	<i>Alyogyne huegelli</i>	Orchid, rockrose	<i>Cistus purpureus</i>
Hibiscus, Chinese	<i>Hibiscus rosa-sinensis</i>	Oregon grape	<i>Mahonia aquifolium</i>
Holly, dwarf Burford	var: Burfordii Nana <i>Ilex cornuta</i>	Osmanthus, holly-leaf	<i>Osmanthus heterophyllum</i>
Honeysuckle, bush	<i>Diervilla lonicera</i>	Osmanthus, sweet olive	<i>Osmanthus fragrans</i>
Honeysuckle, cape	<i>Tecomaria capensis</i>		
Hydrangea	<i>Hydrangea macrophylla</i>		
Jasmine, Asiatic	<i>Trachelopsernum 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
Shrub Species (continued)		Shrub Species (continued)	
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>Heteromeles 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's 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 phytotoxicity has been found, though usually occurring at application rates above those recommended on the product label.	
Privet, Texas	<i>Ligustrum texanum</i>		
Privet, waxleaf	<i>Ligustrum japonicum</i>	Ornamentals and Bedding Plants	
Purple hop bush	<i>Dodonaea viscosa</i>	Alyssum	<i>Alyssum</i> sp.
Pyracantha	<i>Pyracantha graberi</i>	Asparagus, myers	var: Meyer <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	Asparagus, sprenger	var: Sprenger <i>Asparagus densiflorus</i>
Sandcherry, purpleleaf	<i>Prunus cistena</i>	Aster, New York	<i>Aster novi-belgii</i>
Serviceberry, Allegheny	<i>Amelanchier laevis</i>	Aster, stokes	var: Blue, White <i>Stokesia cyanae</i>
Serviceberry, Saskatoon	var: Regent <i>Amelanchier alnifolia</i>	Baby's breath	var: Bristo fairy <i>Gypsophila paniculata</i>
Silver king	<i>Euonymus japonica</i>	Begonia	<i>Begonia semperflorens</i>
Sky flower, Brazilian	<i>Duranta stenostachya</i>	Bellflower, Tussock	var: Canterbury bells <i>Campanula carpatica</i>
Snowball bush	<i>Viburnum opulus sterilis</i>	Bittersweet, American	<i>Calatrpa scandens</i>
Spindle tree	<i>Euonymus kiautschovica</i>	Black-eyed Susan	var: Goldilocks <i>Rudbeckia hirta</i>
Spiraea	<i>Spiraea vanhouttei</i> var: Anthony waterer, Froebellii, goldflame <i>Spiraea bumalda</i> var: fairy queen <i>Spiraea trilobataioica</i> var: Snowbound <i>Spiraea nipponicaioica</i>	Bleeding heart	<i>Dicentra spectabilis</i>
Star plant, lavender	<i>Grewia occidentalis</i>	Butterfly weed	<i>Asclepias tuberosa</i>
Tea tree, Australian	<i>Leptospermum laevigatum</i>	Bower vine	<i>Pandorea jasminoides</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>

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Table 8. Tolerant Plant Species (continued)

Common Name	Scientific Name	Common Name	Scientific Name
Ornamentals and Bedding Plants (continued)		Ornamentals and Bedding Plants (continued)	
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>Lythrum virgatum</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
Ornamentals and Bedding Plants (continued)		Ground Covers (continued)	
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>
Sweet William	<i>Dianthus barbatus</i>	Myoporum	var: <i>Prostratum</i> <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>
Verbena	<i>Verbena</i> sp.	Rosemary, dwarf	var: <i>Prostratus</i> <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 phyto-toxicity has been found, though usually occurring at application rates above those recommended on the product label.			
Ground Covers		Wildflowers	
Aaron's beard	<i>Hypericum calycinum</i>	African daisy	<i>Dimorphotheca aurantiaca</i>
Aptenia	var: Red apple <i>Aptenia cordifolia</i>	Baby blue eyes	<i>Nemophila insignis</i>
Bergenia, winter-blooming	<i>Bergenia crassifolia</i>	Baby snapdragon	<i>Linaria macrocanna</i>
Bugleweed	<i>Ajuga reptans</i>	Baby's breath	<i>Gypsophila muralis</i>
Capeweed	<i>Arctotheca calendula</i>	Bachelor button	<i>Centaurea cyanus</i>
Carpathian, harebell	<i>Campanula carpatica</i>	Bird's eyes	<i>Gilia tricolor</i>
Cinquefoil, spring	<i>Potentilla tabernaemontani</i>	Black-eyed Susan	<i>Rudbeckia hirta</i>
Coyote brush	var: Twin peaks <i>Baccharis pilularis</i>	Blanketflower	<i>Gaillardia aristata</i>
Crownvetch	<i>Coronilla varia</i>	Blue fescue	<i>Festuca ovina glauca</i>
Cushion bush	<i>Calocephalus brownii</i>	Blue flax	<i>Linum lewisii</i>
Daisy, freeway	<i>Osteospermum</i>	Butterflyweed	<i>Asclepias tuberosa</i>
Daisy, trailing African	<i>Osteospermum</i>	Calendula	<i>Calendula officinalis</i>
Daisy, white African	<i>Osteospermum fruticosum</i> <i>alba</i>	California poppy	<i>Eschscholzia californica</i>
Gazania, trailing	<i>Gazania regens leucolaena</i>	Calliopsis	<i>Coreopsis tinctoria</i>
Green carpet	<i>Herniaria glabra</i>	Candytuft	<i>Iberis sempervirens</i>
Ivy, Algerian	<i>Hedera canaiensis</i>	Carnation	<i>Dianthus</i>
Ivy, Boston	<i>Parthenocissus tricuspidata</i>	Catchfly	<i>Silene armeria</i>
		Chicory	<i>Chicory intybus</i>
		Chinese houses	<i>Collinsia heterophylla</i>
		Columbine	<i>Aquilegia</i> spp.

Table 8. Tolerant Plant Species (continued)

Common Name	Scientific Name	Common Name	Scientific Name
Wildflowers (continued)		Wildflowers (continued)	
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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