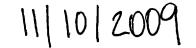
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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

NOV 1 0 2009

Regiane G Pereira Valent U.S.A. Corporation 1600 Riviera Avenue, Suite 200 Walnut Creek, CA 94596

Dear Ms. Pereira:

Subject:

Revised Labeling and Add Christmas Tree Plantations

BroadStar Herbicide

EPA Registration No. 59639-128

Your Submission Dated February 16, 2009

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you submit one (1) copy of your final printed labeling before you release the product for shipment.

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

If you have any questions concerning this letter please contact Mr. James Stone at 703-305-7391.

Sincerely yours,

15/

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

Enclosure



# **ACCEPTED**

NOV 1 0 2009 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

59639-128

GROUP 14 HERBICIDE

# BroadStar™ Herbicide

PROVIDES PREEMERGENCE WEED CONTROL IN:

- CONTAINER GROWN ORNAMENTALS
- FIELD GROWN ORNAMENTALS INCLUDING CHRISTMAS TREE PLANTATIONS
- LANDSCAPE ORNAMENTALS
- NON-BEARING FRUIT AND NUT TREES AND VINES
- BARE GROUND NON-CROP AREAS

Active Ingredient	By Wt.
*Flumioxazin	0.25%
Other Ingredients	
Total	

\*(2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione)

BroadStar Herbicide is a granule containing 0.25% active ingredient.

#### KEEP OUT OF REACH OF CHILDREN

# **CAUTION**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**NET WEIGHT \_\_\_\_ POUNDS** 





# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust and spray mist.

#### **FIRST AID**

# If on skin or clothing:

- · Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- · Call a poison control center or doctor for treatment advice.

#### If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

#### If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

#### If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- · Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

#### **HOT LINE 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 **800-892-0099** for emergency medical treatment information.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes and socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toliet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### **ENVIRONMENTAL HAZARDS:**

This product is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

This pesticide is toxic to plants and should be used strictly in accordance with the drift and runoff precautions on this label in order to minimize off-site exposures.

Under some conditions this product may have a potential to runoff to surface water or adjacent land. Where possible, use methods which reduce soil erosion, such as no till, limited till and contour plowing; these methods also reduce pesticide runoff. Use of vegetation filter strips along rivers, creeks, streams, wetlands or on the downhill side of fields where runoff could occur will minimize water runoff is recommended.

#### **DIRECTIONS FOR USE**

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves made of any waterproof material, shoes plus socks.

#### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift.

Do not enter or allow others to enter treated areas until dust has settled.

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#### DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

#### RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

#### LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

#### LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

#### PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

#### NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

#### TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law

Read and follow the entire label of each product to be used in the tank mix with this product.

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#### **GENERAL INFORMATION**

BroadStar Herbicide is a selective preemergence herbicide that provides extended residual control of a wide variety of annual broadleaf and grassy weeds. BroadStar is labeled for use in containerized and field grown (in-ground) woody, ornamental shrubs and trees, ground covers and non-bearing fruit and nut trees that are grown in nurseries, conifer plantations and ornamental landscapes. BroadStar is also labeled to maintain bare ground in non crop areas.

BroadStar controls weeds by inhibiting protoporphyrinogen oxidase, an essential enzyme required by plants for chlorophyll biosynthesis. Seedling weeds are controlled preemergence when exposed to sunlight following contact with the soil applied herbicide. BroadStar has limited postemergent activity against newly germinated seedlings of some weed species, but should be applied before weed germination to ensure optimal control.

Most hardy woody ornamental shrubs, trees, and ground covers are tolerant to *BroadStar* so long as the product is applied in accordance with the label. *BroadStar* may cause leaf spotting on some tolerant species if granules are allowed to remain in contact with leaf surfaces, especially on new flush or on foliage that is wet at the time of application. However, subsequent plant growth is generally unaffected. *BroadStar* may injure some otherwise tolerant species if not applied in accordance with the label, and may also injure ornamental species that are not listed on the label. Therefore, read all label precautions and restrictions before applying *BroadStar* to ornamental plants.

#### **General Restrictions and Limitations**

- Do not apply by air.
- Do not apply to moist or wet foliage.
- Do not apply when winds are gusty or above 10 mph.
- Do not apply to plants that are under moisture stress or stress from insects, diseases, animals, winter injury, planting shock or any other stresses.
- Use caution when applying to plants that are producing a new flush of growth because herbicide may injure tender, newly formed leaves if granules remain in contact with leaf surfaces.
- Do not apply to plants grown from seed until at least one year after seed germination, unless tolerance is first confirmed on a small number of plants.
- Do not apply to plants whose leaves channel the herbicide granules to the leaf base.
- Do not apply to herbaceous bedding plants or areas where bedding plants will be planted or transplanted within three months following application.
- Do not apply to plants while in propagation.
- Do not apply to liners that are in pots less than 4 inches in diameter.
- Do not apply to recently transplanted liners with root balls that are less than 4" in diameter until liners have been actively growing for at least 6 weeks after transplanting.
- Non-bearing fruit and nut trees such as citrus, apples, pears, peaches, etc. are defined as plants that will not bear fruit for at least one year after application.
- Do not incorporate product into soil or potting media.
- Do not apply more than 150 lbs per acre in a single application or more than 300 lbs per acre in a single year.
- Do not treat the same plants more than one time every 8 weeks or more than two times per year.
- Do not apply in an enclosed greenhouse structure.
- Do not graze or feed livestock forage cut from treated areas.

#### Tolerance of Turfgrass Adjacent to Ornamental Plantings

BroadStar may injure actively growing turfgrass, especially if wet at time of application. Therefore, do not apply BroadStar directly to turfgrass and minimize drift of BroadStar onto turfgrass during application to ornamentals. Injury from accidental drift of BroadStar onto turfgrass will generally be tempory.

#### **Preemergence Application**

BroadStar provides effective preemergence control of weeds listed in Table 4. For optimal preemergence control, apply BroadStar to clean, weed free soil or mulch before weed seeds germinate. Disturbing soil surfaces after application may reduce herbicide efficacy. Remove existing weeds, weed residues and trash before applying BroadStar. Approximately 1/2 to 3/4 inch of rainfall, overhead sprinkler irrigation or hand irrigation is required to activate BroadStar. Inadequate irrigation or rainfall following application may reduce effectiveness of BroadStar. If adequate soil moisture is maintained following application, BroadStar should provide at least 8 to 12 weeks of preemergent control of labeled weeds, except under unusual environmental conditions (excessive rainfall, irrigation or temperature). Control is generally most persistent under cooler temperatures.

#### **Application Instructions**

Apply *BroadStar* with clean, well maintained drop or rotary type granular application equipment. Calibrate application equipment prior to use according to manufacturer's directions. Refer to Table 1 for calibration of hand cranked rotary spreaders. Check frequently to be sure equipment is working properly and distributing granules uniformly. Avoid skips and overlaps, as poor weed control or crop injury may occur. Clean equipment before adding *BroadStar* to ensure that no residue from the previous operation remains. Some pesticides are active at very trace quantities and can cause injury when applied to susceptible plants.

#### **Application Recommendations**

- Remove any existing weeds before applying BroadStar.
- Apply to dry foliage only. To test for moisture, rub hands over plant foliage.
- Irrigate plants within 1 hour after application with 1/2 to 3/4 inch of water to activate the herbicide and remove any remaining herbicide granules. If herbicide granules are allowed to remain on plant foliage for an extended period, herbicide residues may be released and cause leaf spotting on some sensitive ornamental species, especially on new flush.
- If granules remain on foliage following application, and plants will not be irrigated for more than one hour after application, lightly brushing or blowing plants will reduce the potential for plant injury.

#### **Application Techniques**

Apply *BroadStar* with a properly calibrated drop or rotary type spreader that will ensure accurate, even particle distribution.

- When using a drop type spreader, a splashboard mounted under the hopper will provide more even granule distribution.
- When using a hand held or push type rotary applicator, such as a whirlybird or cyclone unit, walk and turn the crank at a constant rate of speed.
- Use a hand shaker to treat small numbers of plants, or areas that are difficult to reach with a
  whirlybird or cyclone spreader. Construct hand shakers by punching holes in the lid of a small plastic
  container. Calculate amount of *BroadStar* needed to treat area, place this amount in shaker and apply
  evenly over plants. Refer to Table 3 for amounts needed to treat individual containers.

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#### **Drift Management**

Do not apply under circumstances where possible drift to unprotected persons or to food, forage or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption can occur.

- Make applications when the wind velocity favors on-target product deposition. Apply only when the
  wind speed is less than or equal to 10 mph. For all applications, wind speed must be measured
  adjacent to the application site on the upwind side, immediately prior to application.
- All application equipment must be properly maintained and calibrated using appropriate carriers.

#### **Resistance Management**

Any weed population may contain or develop plants naturally resistant to herbicides in various mode of action classes. Resistant biotypes may eventually dominate the weed population if the same class of chemistry/mode of action herbicides are used repeatedly in the same use site or in successive years.

#### To Delay Herbicide Resistance

- Avoid the use of herbicides that have a similar target site mode of action in consecutive years.
- Base herbicide use on an Integrated Pest Management (IPM) program that includes scouting, record keeping, and consideration of cultivation practices, water management, weed free crop seed, crop rotation, and other chemical or cultural control practices.
- Monitor treated weed population for resistance development and report suspected resistance.
- Contact your local extension or crop expert (advisor) for any additional pesticide resistance management and/or IPM recommendations for specific crops and weed biotypes.
- For further information contact Valent U.S.A. Corporation at the following toll free number 800-682-5368.

#### CALIBRATION OF HERBICIDE APPLICATION EQUIPMENT

*BroadStar* is a very active herbicide and can injure some otherwise tolerant plants if applied at excessive rates. The user is responsible for accurately calibrating herbicide application equipment so that *BroadStar* is applied at the labeled rate of 150 lbs. per acre. The user assumes responsibility for any plant damage or other liability resulting from application of *BroadStar* at excessive rates.

#### **Hand Cranked Spreaders**

The application rate (lbs./acre) of *BroadStar* with hand cranked spreaders will depend on the width of the plant bed to be treated, the operator's walking speed, the speed at which the operator turns the crank and the spreader setting (opening). The walking and cranking speed will vary among individual operators. Therefore, hand cranked spreaders must be calibrated for individual operators in order to apply *BroadStar* at the labeled rate of 150 lbs. per acre.

Use the spreader settings in Table 1 as a starting point when calibrating hand cranked spreaders for application of *BroadStar*. These settings assume a walking speed of 3 mph, a cranking speed of 60 revolutions per minute (rpm) and that the operator makes one pass down each aisle between each plant bed.

To more precisely calibrate hand cranked spreaders for application of *BroadStar* by individual operators, first select a test area that does not have plants present. Calculate the number of square feet in the test area by multiplying the length by the width (in feet) of the area to be treated. Include aisle space between beds when determining length and width of the test area. Then calculate the amount of *BroadStar* needed to treat the test area by multiplying the number of square feet in the test area by 150, and dividing this

result by 43,560. If the hand cranked spreader is listed in Table 1, set the spreader opening to the position indicated for the appropriate bed width. Place *BroadStar* calibration trays in test area. Weigh out calculated amount of *BroadStar*, place in the spreader, and apply to the test area at applicator's standard walking and cranking speed. Adjust spreader opening if measured amount of *BroadStar* does not evenly cover the test area and/or if calibration trays indicate that too much or too little *BroadStar* has been applied.

Example: there is room for six plant beds in the test area that will be treated with BroadStar. Beds are 60 feet in length, six feet wide, and are separated by two-foot aisles. Therefore, the width of test area (i.e. distance between outside of Bed 1 and outside of Bed 6) is 46 ft., and the number of square feet in the test area = 60 ft x 46 ft = 2,760 square feet. Amount of BroadStar needed to treat the test area = 2,760 x 150/43,560 = 9.5 pounds.

Table 1. Settings (Port Opening) for Hand Cranked Rotary Spreaders

Spreader	One Sideo	Operation	Two Sided Operation		
Spreader	Bed Width (ft)	Spreader Setting	Bed Width (ft)	Spreader Setting	
Spyker 75	4	2.5	4	3.0	
	6	3.0	6	3.5 - 4.0	
	8	3.5	8	4.5	
	10	3.5 – 4.0	10	4.5 - 5.0	
	12	4.0	12	5.0 - 6.0	
Warren T-7 11	4		4	4.0	
	6	3.5 – 4.0	6	4.5	
	8	4.0 – 4.5	8	5.0 - 5.5	
	10	4.5	10	6.0	
	12	5.0	12		
Earthway 3100	4	. 8	4	8 – 10	
	6	10 – 12	6	10	
	8	10 – 12	. 8	10 – 12	
	10	12	10	12	
	12	12	12	12 – 14	
Solo 421S	4	1	4	2	
Ī	6	1 – 2	6	3	
	8	1 – 2	8	4	
	10	2	10	5-6	
	12	3 – 4	12		

Table 2. Weight To Volume Conversion Table

Rate	Amount/1000 sq ft		Amount/	100 sq ft
Lbs/Acre	Lbs	Qts	Lbs	Cups
150	3.4	2.4	0.34	1.0

One pound of BroadStar = 0.7 quarts = 2.8 cups

#### **Application to Individual Containers**

BroadStar may be applied to the surface of individual containers, but only at a rate that is equivalent to the amount of product that would land on the media surface of an individual container if broadcast at 150 lbs per acre. Use the conversions in Table 3 to determine how much BroadStar to apply to an individual container, and then use a hand shaker to evenly distribute over the media surface.

Table 3. Application Amounts for Individual Containers (equivalent to 150 lbs/A)

Pot Diameter (inches)	Gram(s) BroadStarlpot	Teaspoon(s) BroadStarlpot		Pot Diameter (inches)	Grams BroadStar/pot	Teaspoon(s) BroadStarlpot
4	0.14	1/28	想	24	4.91	1-1/4
5	0.21	1/18		25	5.33	1-1/2
` 6	0.31	1/12		26	5.76	1-1/2
7	0.42	1/9		27	6.21	1-3/4
8	0.55	1/7		28	6.68	1-3/4
9	0.69	1/6		29	7.17	2
10	0.85	1/5	***	30	7.67	2
11	1.03	1/4		31	8.19	_ 2
12	1.23	1/3	140 %	32	8.73	2-1/4
13	1.44	1/3	10	33	. 9.28	2-1/2
14 .	1.67	1/2	11	34	9.85	2-1/2
15	1.92	1/2		35	10.44	2-3/4
16	2.18	5/8	100	36	11.05	3
17	2.46	5/8		37	11.67	3
18	2.79	3/4	1	38	12.31	3-1/4
19	3.08	3/4	31.5	39	12.96	3-1/2
20	3.41	7/8		40	13.64	3-1/2
21	3.76	1	]: [51] ( 	41	14.33	3-3/4
22	4.12	1	160° 70°	42	15.03	4
23	4.51	1-1/4	200			

One level teaspoon of *BroadStar* weighs approximately 3.8 grams One heaping teaspoon of *BroadStar* weighs approximately 5.9 grams One level tablespoon of *BroadStar* weighs approximately 11.2 grams

#### ORNAMENTAL PLANT TOLERANCE INFORMATION

Most woody ornamental plants are tolerant to *BroadStar* when the product is applied according to the label. However, *BroadStar* is a very active herbicide and should not be applied on a commercial scale until the user has first confirmed its safety on a small number of test plants grown under his or her growing conditions. Test plants should be actively growing at the time of application, and examined for 4 to 8 weeks for symptoms of plant injury. If test plants are dormant at the time of application, or enter dormancy within 8 weeks after application, continue the injury evaluation until after plants break dormancy in the spring.

Mild leaf spotting is the most common symptom of *BroadStar* injury on tolerant ornamental plants, and usually appears within 1 to 2 days after application. Leaf spotting is most likely to occur when *BroadStar* is applied to new flush that is wet at time of application. In order to minimize the risk of leaf spotting, completely read and follow the **Application Recommendations** section of the label.

If NOT applied in accordance with the label, *BroadStar* may cause unacceptable injury to some otherwise tolerant ornamental plant species.

#### Treatment of Ornamental Plant Species Labeled as Sensitive

BroadStar can cause significant injury to woody ornamental plants listed in Table 5. The user assumes responsibility for any plant damage that results from the application of BroadStar to plants listed as sensitive.

#### Treatment of Ornamental Plant Species NOT Listed on Label

BroadStar can be applied to woody ornamental shrubs and trees not specifically listed on this label. However, the user should NOT begin commercial scale application of BroadStar on non-listed species until after first confirming the product's safety on a small number of plants grown under standard growing conditions. The user assumes responsibility for any plant damage that results from the application of BroadStar to non-listed plant species.

#### Treatment of Ornamental Plant Species with Wet Foliage

When *BroadStar* is applied to dry plants, most *BroadStar* granules will bounce or roll off of foliage before releasing herbicide residues. However, if *BroadStar* is applied to plants that are wet from dew, irrigation water or rainfall, some granules may stick to foliage and release herbicide residues. Herbicide release *onto* wet foliage can injure some plant species, including those that are tolerant, when *BroadStar* is applied to dry foliage. Therefore, *BroadStar* should NOT be applied to wet plants, especially those with pubescent foliage or a leaf structure that tends to trap granules at growing points.

#### **Treatment of Recently Transplanted Liners**

Under certain conditions, *BroadStar* can cause significant injury to recently transplanted liners of some plant species that are tolerant when more established (i.e. have formed a well developed root system). Injury to recently transplanted liners is most likely when *BroadStar* is applied to smaller liners (less than one gallon container size), is applied at above labeled rates, and is applied before potting media has been settled by irrigation or rainfall. Therefore, do not apply *BroadStar* to recently transplanted liners with root balls less than 4 inches in diameter until plants have been actively growing for at least 6 weeks after transplanting and have established a vigorous root system.

#### Treatment of Herbaceous Plants, Tropical Shrubs and Foliage Plants

BroadStar will severely injure many annual bedding plants (e.g. Petunia), and some herbaceous perennials (e.g. Hosta), tropical shrubs and foliage plants. Therefore, do not apply BroadStar over-the-top of herbaceous annual bedding plants, herbaceous perennials, tropical shrubs or foliage plants until after the user has confirmed the product's safety on a small number of plants grown under standard growing conditions.

#### **Treatment of Seedling Trees and Shrubs**

BroadStar may injure seedlings of some trees and shrubs if applied before seedlings have established a vigorous root system. Therefore, do not apply BroadStar to tree and shrub seedlings within one year after germination, unless the user has first confirmed the product's safety on a small number of plants grown under standard growing conditions.

### DIRECTIONS FOR USE IN CONTAINER, FIELD OR LANDSCAPE GROWN ORNAMENTAL SHRUBS, TREES, CHRISTMAS TREES, GROUND COVERS, NON-BEARING FRUIT AND NUT TREES, VINES, AND BARE GROUND NON-CROP AREAS

In residential and commercial landscape, *BroadStar* should only be applied by commercial licensed applicators. *BroadStar* applied at 150 lbs per acre (approximately 3.5 lbs per 1000 sq ft) is an effective herbicide treatment for control of the weeds listed in Table 4 when applied to established container, field or landscape grown shrubs, trees, Christmas trees, ground covers, non-bearing fruit and nut trees and vines. *BroadStar* may also be applied at 150 lbs/A to maintain bare ground in non-crop areas in apartment complexes, gravel surfaces, ground mats, golf courses, office complexes, parks, parking areas, recreational sites, schools, sidewalks and other similar sites. Apply *BroadStar* in these settings before weeds germinate.

READ AND FOLLOW THE ENTIRE GENERAL INFORMATION SECTION OF THIS LABEL BEFORE APPLYING

#### **Special Product Use Precautions for Landscape Application**

BroadStar can cause contact injury to foliage of landscape ornamentals if applied over the top of new flush, and especially if foliage is wet. To maximize crop tolerance, apply BroadStar to dormant or non-actively growing landscape plants and avoid application to new flush.

To minimize the potential for plant injury do not apply BroadStar:

- To foliage that is wet due to rainfall, irrigation or dew.
- Over the top of ornamental plants not listed on this label until evaluating plant tolerance on a small number of plants grown under standard growing conditions.
- To plants whose leaves channel the herbicide granules to the leaf base.
- To plants grown from seed until at least one year after seed germination, unless tolerance is first confirmed on a small number of plants.
- To bedding plants or in areas where bedding plants will be planted or transplanted within three
  months following application.
- To recently transplanted ornamentals (including those on the list of tolerant ornamental species) until such plants have been actively growing for at least 6 weeks after transplanting, and have established a vigorous root system.

#### WEEDS CONTROLLED

When applied at 150 lbs/A before weeds germinate, *BroadStar* will provide good to excellent preemergent control of the following annual grass and broadleaf weeds.

Table 4. WEEDS CONTROLLED

SCIENTIFIC NAME	
Berteroa incana	
Amaranthus palmeri	
Amaranthus spinosus	
Echinochloa crus-galli	
Desmodium tortuosum	

150f22

Bittercress, Hairy Bluegrass, Annual Burclover, California

Carpetweed Chickweed Common

Mouseear Crabgrass Large

Smooth Southern Croton, Tropic

Dandelion Dayflower, Benghal

Dogfennel Doveweed Eclipta

Filaree, Redstem

Foxtail Bristly Giant Green Yellow

Galinsoga, Hairy Geranium, Carolina

Goosegrass

Groundsel, Common

Henbit Horseweed Indigo, Hairy Cardamine hirsute Poa annua Medicago hispida Mollugo verticillata

Stellaria media Cerastium vulgatum

Digitaria sanguinalis Digitaria ischaemum Digitaria ciliaris

Croton glandulosus var septentrionalis

Taraxacum officinale Commelina benghalensis Eupatorium capillifolium Murdannia nudiflora Eclipta prostrate Erodium cicutarium

Setaria verticillata Setaria faberi Setaria viridis Setaria glauca Galinsoga ciliata Geranium carolinianum Eleusine indica Senecio vulgaris

Senecio vulgaris Lamium amplexicaule Conyza canadensis Indigofera hirsuta

COMMON NAME	SCIENTIFIC NAME
Jimsonweed	Datura stramonium
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Lambsquarters, Common	Chenopodium album
Liverwort*	Marchantia polymorpha
Lovegrass, California	Eragrostis diffusa
Mallow	
Common	Malva neglecta
Little	Malva parviflora
Venice	Hibiscus trionum
Mayweed	Anthemis cotula
Morningglory	
Entireleaf	Ipomoea hederacea var integriuscula
lvyleaf	Ipomoea hederacea
Smallflower	Jacquemontia tamnifolia
Tall	Ipomoea purpurea
Moss species	Bryum spp
Mulberry Weed	Fatuoa villosa
Nightshade	
Black	Solanum nigrum
Eastern Black	Solanum ptycanthum
Panicum	
Fall	Panicum dichotomiflorum
Texas	Panicum texanum
Parsley-Piert	Alchemilla arvensis
Pearlwort, Birdseye	Sagina procumbens
Pennycress, Field	Thlaspi arvense
Phyllanthus, Longstalk	Phyllanthus tenellus
Pigweed	
Prostrate	Amaranthus blitoides
Redroot	Amaranthus retroflexus
Smooth .	Amaranthus hybridus
Tumble	Amaranthus albus
Pineapple-weed	Matricaria matricarioides
Plantain	
Broadleaf	Plantago major
Buckhorn	Plantago lanceolata
Puncturevine	Tribulus terrestris
Purslane, Common	Portulaca oleracea
Pusley, Florida	Richardia scabra

<sup>\*</sup>Will provide some postemergent control of liverwort which will be enhanced at higher temperatures and light levels.

COMMON NAME	SCIENTIFIC NAME
Ragweed	
Common	Ambrosia artemisiifolia
Giant.	Ambrosia trifida
Redmaids	Calandrinia ciliata
Rocket, Yellow	Barbarea vulgaris
Senna, Coffee	Cassia occidentalis
Sesbania, Hemp	Sesbania exaltata
Shepherd's-purse	Capsella bursa-pastoris
Sida, Prickly (Teaweed)	Sida spinosa
Signalgrass	Brachiaria platyphylla
Smartweed, Pennsylvania	Polygonum pensylvanicum
Sowthistle, Annual	Sonchus oleraceus
Spurge	
Prostrate	Euphorbia humistrata
Spotted	Euphorbia maculata
Starbur, Bristly	Acanthospermum hispidum
Thickhead	Crassocephalum crepidioides
Thistle	
Canada	Cirsium arvense
Russian	Salsola iberica
Velvetleaf	Abutilon theophrasti
Waterhemp	
Common	Amaranthus rudis
Tall	Amaranthus tuberculatus
Woodsorrel, Common Yellow	Oxalis stricta

# **SENSITIVE ORNAMENTAL SPECIES**

Injury has been reported after application of *BroadStar* to the plants listed in Table 5, especially when applied to small, recently transplanted liners. In some cases, only specific cultivars are listed because injury has not been reported on other cultivars of this species (See Tables 6-8). It is recommended that *BroadStar* not be applied to these plant species or cultivars.

**Table 5. SENSITIVE SPECIES** 

COMMON NAME	SCIENTIFIC NAME
Butterfly Bush	Buddleia davidii
Clethra, Summersweet	Clethra alnifolia
Deutzia, Slender	Deutzia gracilus "Nikko"
Holly, Winterberry	llex verticillata
Hydrangea	Hydrangea spp
Nandina	Nandina domestica "Firepower"
Plumbago, Cape	Plumbago auriculata
Spirea, Japanese	Spiraea japonica
Wax Myrtle, Southern (seedling)	Myrica cerifera

#### **TOLERANT ORNAMENTAL SPECIES**

Injury other than temporary leaf spotting has not been observed on species listed in Tables 6-8 when *BroadStar* was applied at the labeled rate to established plants with a well developed root system. Some species listed as tolerant in Tables 6-8 may be injured if *BroadStar* is applied before transplanted liners have established a well developed root system (See general Restrictions and Limitations section in this label for complete details). *BroadStar* has not been applied to all cultivars of listed species, or under all environmental conditions and cultural practices under which these species could be grown. Therefore, before beginning commercial scale application of *BroadStar* to plants labeled as tolerant, the user should first confirm the product's safety on a small number of plants grown under standard growing conditions.

Table 6. TREES INCLUDING CHRISTMAS TREES

Arborvitae American Giant Oriental Ash Green White Birch Cedar, Deodora Crabapple, Flowering Cottonwood Cypress Italian Templehoff Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Fir Balsam Douglas Fraser Grand Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Mright and Abies procera Giant Oriental Andias Spi Thuja occidentalis Thuja plicata Thuja occidentalis Thuja plicata Thuja occidentalis Thuja occidentalis Thuja occidentalis Thuja plicata Thuja plicata Thuja occidentalis Thuja plicata Thuja plicata Thuja plicata Thuja occidentalis Thuja plicata Thuja occidentalis Thuja plicata Thuja plicata Thuja plicata Thuja plicata Thuja plicata Thuja plicata Thuja occidentalis Thuja plicata Thuja pl	Table 6. TREES INCLUDING CHRISTMAS TREES		
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Oriental Ash Green White Birch Cedar, Deodora Crabapple, Flowering Cottonwood Cypress Italian Templehoff Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Fraxinus pennsylvanica Fraxinus americana Betula spp Cedrusdeodora Cedrusdeodora Malus spp Populus deltoids Cupressus sempervirens Chamaecyparis obtusa Cornus florida Ulmus parvifolia Eucalyptus Mealy Red Gum Ficus Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western  Fraxinus pennsylvanica Fraxinus americana Fravinus pennsylvanica Fraxinus pennsylvanica Fraxinus americana Fravinus Ables obtusa Cupressus sempervirens Ables obtusa Cornus florida Ulmus parvifolia Eucalyptus cinerea Fucalyptus cinerea Abies balsamea Pseudotsuga menzesii Abies praceri Ginkgo Ginkgo biloba	American	Thuja occidentalis	
Ash Green White Birch Cedar, Deodora Crabapple, Flowering Cottonwood Cypress Italian Templehoff Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Fraxinus pennsylvanica Fraxinus americana Betula spp Cedrusdeodora Malus spp Populus deltoids Cupressus sempervirens Chamaecyparis obtusa Cornus florida Ulmus parvifolia Eucalyptus Mealy Red Gum Ficus Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western Fraxinus pennsylvanica Malus spp Cedrusdeodora Cedrusdeodora Malus spp Cupressus sempervirens Abius spp Cupressus sempervirens Abius spp Cupressus sempervirens	Giant	Thuja plicata	
Green White Birch Birch Cedar, Deodora Crabapple, Flowering Cottonwood Cypress Italian Templehoff Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Fraxinus pennsylvanica Fraxinus americana Betula spp Cedrusdeodora Malus spp Populus deltoids Cupressus sempervirens Chamaecyparis obtusa Cornus florida Ulmus parvifolia Eucalyptus Mealy Red Gum Ficus Fir Balsam Douglas Fir Balsam Abies balsamea Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western Fraxinus pennsylvanica Betula spp Cedrusdeodora Malus spp Cupressus sempervirens Chamaecyparis obtusa Cornus florida Ulmus parvifolia Fucalyptus cinerea Fucalyptus cinerea Fucalyptus cinerea Abies balsamea Abies balsamea Abies grandis Abies grandis Abies procera Ginkgo biloba Fraxinus americana Abies obtusa Tsuga canadensis Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Oriental	Thuja orientalis	
White Birch Betula spp Cedar, Deodora Crabapple, Flowering Malus spp Cottonwood Populus deltoids Cypress Italian Cupressus sempervirens Templehoff Chamaecyparis obtusa Cornus florida Elm, Chinese Ulmus parvifolia Eucalyptus Mealy Eucalyptus cinerea Red Gum Eucalyptus camaldulensis Ficus Ficus Ficus benjamina Fir Balsam Abies balsamea Douglas Pseudotsuga menzesii Arieser Abies fraseri Grand Abies grandis Korean Abies procera Ginkgo Ginkgo biloba Hemlock Eastern Tsuga canadensis Tsuga mertensiana Western Tsuga heterophylla	Ash		
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Crabapple, Flowering Cottonwood Cypress Italian Templehoff Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Ficus Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western  Malus spp Populus deltoids  Cupressus sempervirens Chamaecyparis obtusa Cornus florida Ulmus parvifolia Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina Fir Abies balsamea Pseudotsuga menzesii Abies grandis Abies procera Ginkgo biloba Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Birch	Betula spp	
Cottonwood Cypress Italian Templehoff Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Ficus Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Templehoff Cupressus sempervirens Chamaecyparis obtusa Cornus florida Ulmus parvifolia Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina Ficus benjamina Abies balsamea Pseudotsuga menzesii Abies grandis Abies grandis Abies procera Ginkgo biloba Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Cedar, Deodora	Cedrusdeodora	
Cypress Italian Cupressus sempervirens Chamaecyparis obtusa Cornus florida Elm, Chinese Eucalyptus Mealy Red Gum Ficus Ficus Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Tsuga mertensiana Tsuga heterophylla	Crabapple, Flowering	Malus spp	
Italian Templehoff Chamaecyparis obtusa Cornus florida Elm, Chinese Eucalyptus Mealy Red Gum Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Templehoff Chamaecyparis obtusa Cornus florida Ulmus parvifolia Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina  Abies balsamea Pseudotsuga menzesii Abies grandis Abies grandis Abies procera Ginkgo biloba  Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Cottonwood	Populus deltoids	
Templehoff Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western Elm, Chinese Cornus florida Curlus parvifolia Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina Ficus benjamina Abies balsamea Pseudotsuga menzesii Abies grandis Abies grandis Abies procera Ginkgo biloba Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Cypress		
Dogwood, Florida Elm, Chinese Eucalyptus Mealy Red Gum Ficus Ficus Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western  Cornus florida Ulmus parvifolia  Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina  Ficus benjamina  Abies balsamea Pseudotsuga menzesii Abies fraseri Abies grandis Abies procera Ginkgo biloba  Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Italian	Cupressus sempervirens	
Elm, Chinese Eucalyptus Mealy Red Gum Ficus Ficus Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western  Mealy  Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina  Ficus benjamina  Abies balsamea Pseudotsuga menzesii Abies fraseri Abies grandis Abies grandis Abies procera Ginkgo biloba  Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Templehoff	Chamaecyparis obtusa	
Eucalyptus  Mealy Red Gum Ficus Ficus Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina Ficus benjamina Ficus benjamina Ficus benjamina Abies balsamea Abies balsamea Abies fraseri Abies grandis Abies grandis Abies procera Ginkgo biloba Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Dogwood, Florida	Cornus florida	
Mealy Red Gum Eucalyptus cinerea Eucalyptus camaldulensis Ficus Ficus Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western Eucalyptus cinerea Eucalyptus camaldulensis Ficus benjamina Ficus b	Elm, Chinese	Ulmus parvifolia	
Red Gum Ficus Ficus Fir Balsam Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western Ficus benjamina  Eucalyptus camaldulensis Ficus benjamina  Abies balsamea Pseudotsuga menzesii Abies fraseri Abies grandis Abies koreana Abies procera Ginkgo biloba  Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Eucalyptus		
Ficus Ficus benjamina  Fir  Balsam Abies balsamea  Douglas Pseudotsuga menzesii  Fraser Abies fraseri  Grand Abies grandis  Korean Abies koreana  Noble Abies procera  Ginkgo Ginkgo biloba  Hemlock  Eastern Tsuga canadensis  Mountain Tsuga mertensiana  Western Tsuga heterophylla	Mealy	Eucalyptus cinerea	
Fir Balsam Douglas Pseudotsuga menzesii Abies fraseri Abies fraseri Abies grandis Korean Abies koreana Abies koreana Abies procera Ginkgo Ginkgo Hemlock Eastern Mountain Western  Abies areana Abies koreana Abies procera Ginkgo biloba Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Red Gum	Eucalyptus camaldulensis	
Balsam Douglas Pseudotsuga menzesii Abies fraseri Abies fraseri Abies grandis Korean Abies koreana Abies koreana Abies procera Ginkgo Ginkgo Hemlock Eastern Mountain Western Abies aradensis Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Ficus	Ficus benjamina	
Douglas Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Fraser Abies fraseri Abies grandis Abies koreana Abies procera Ginkgo biloba Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Fir		
Fraser Grand Korean Noble Ginkgo Hemlock Eastern Mountain Western Abies fraseri Abies grandis Abies koreana Abies procera Ginkgo biloba Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Balsam	Abies balsamea	
Grand Korean Abies grandis Korean Abies koreana Abies procera Ginkgo Ginkgo biloba Hemlock Eastern Mountain Western  Abies grandis	Douglas	Pseudotsuga menzesii	
Korean Noble Abies koreana Abies procera Ginkgo Ginkgo biloba Hemlock Eastern Mountain Western Abies koreana Abies	Fraser	Abies fraseri	
Noble Ginkgo Ginkgo biloba Hemlock Eastern Mountain Western  Abies procera Ginkgo biloba Tsuga canadensis Tsuga canadensis Tsuga mertensiana Tsuga heterophylla	Grand	Abies grandis	
Ginkgo Ginkgo biloba  Hemlock Eastern Tsuga canadensis Mountain Tsuga mertensiana Western Tsuga heterophylla	Korean	Abies koreana	
Hemlock Eastern Tsuga canadensis Mountain Tsuga mertensiana Western Tsuga heterophylla	Noble	Abies procera	
Eastern Tsuga canadensis Mountain Tsuga mertensiana Western Tsuga heterophylla	Ginkgo	Ginkgo biloba	
Mountain Tsuga mertensiana Western Tsuga heterophylla	Hemlock	1	
Western Tsuga heterophylla	Eastern		
	Mountain	Tsuga mertensiana	
	Western		

continued

# TOLERANT ORNAMENTAL SPECIES (continued) Table 6. TREES

Table 6. TREES	
COMMON NAME	SCIENTIFIC NAME
Lilac, Hungarian	Syringa josikaea
Magnolia, Lily	Magnolia lilliflora
Maple	
Flame	Acer ginnala
Flowering	Abutilon hybridum
Japanese	Acer palmatum
Red	Acer rubrum
Striped	Acer pensylvanicum
Mulberry, White	Morus alba
Oak	
Bear	Quercus ilicifolia
Live	Quercus virginiana
Pin	Quercus palustris
Red	Quercus rubra
Willow	Quercus phellos
Pine	
Eastern White	Pinus strobus
Jack	Pinus banksiana
Lacebark	Pinus bungeana
Loblolly	Pinus taeda
Lodgepole	Pinus contorta
Longleaf	Pinus palustris
Mugo	Pinus mugo
Ponderosa	Pinus ponderosa
Sand	Pinus clausa
Scotch	Pinus sylvestris
Shortleaf	Pinus echinata
Slash	Pinus elliottii
Virginia	Pinus virginiana
Plum, Beach	Prunus maritima
Podocarpus	Podocarpus spp
Poplar	Populus spp
Red Cedar, Eastern	Juniperus virginiana
Redbud	Cercis canadensis
Spruce	
Blue	Picea pungens
Dwarf Alberta	Picea glauca conica
Norway	Picea abies
Serbian	Picea omorika
Sitka	Picea sitchensis
Sumac, Staghorn	Rhus typhina
Sweetgum, American	Liquidambar styraciflua
Sycamore	
American	Platanus occidentalis
California	Platanus racemosa
Yew, Japanese	Taxus cuspidata
	continued

continued

### **TOLERANT ORNAMENTAL SPECIES** (continued)

Table 6. SHRUBS AND GROUND COVERS		
COMMON NAME	SCIENTIFIC NAME	
Abelia, Glossy	Abelia x grandiflora	
Acacia	Acacia spp	
Anise, Purple	Illicium floridanum	
Barberry	Berberis spp	
Japanese	Berberis thunbergii	
William Penn	Berberis x gladwynensis	
Bayberry	Myrica pensylvanica	
Bottlebrush	Callistemon spp	
Boxwood, Littleleaf	Buxus microphylla	
Camellia	Camellia japonica	
Cinquefoil, Shrubby	Potentilla fruticosa	
Cotoneaster, Bearberry	Cotoneaster dammeri	
Crape Myrtle <sup>1</sup>	Lagerstroemia indica spp	
Elaeagnus	Elaeagnus spp	
English Ivy	Hedera helix	
Euonymus, Winged <sup>2</sup>	Euonymus alatus	
Firethorn, Scarlet	Pyracantha coccinea	
Forsythia		
Border	Forsythia x intermedia	
Weeping	Forsythia suspense	
White	Abeliophyllum distichum	
Gardenia, Cape Jasmine	Gardenia jasminoides	
Heath	Erica cinerea	
Holly		
Chinese	llex cornuta	
Inkberry	llex glabra	
Japanese²	llex crenata	
Meserve <sup>2</sup>	llex x meserveae	
Nellie R. Stevens	Il x Nellie R. Stevens	
Honeysuckle, Japanese	Lonicera japonica	
Indian Hawthorn	Rhaphiolepis indica	
Juniper		
Creeping	Juniperus horizontalis	
Shore	Juniperus conferta	
Singleseed	Juniperus squamata	
Myoporum	Myoporum parvifolium	
Oleander	Nerium spp	
Oregon Grape	Mahonia spp	
Pachysandra	Pachysandra terminalis	
Photinia	Photinia x fraseri	
Pieris, Japanese	Pieris japonica	
Pittosporum, Japanese	Pittosporum tobira	

continued

<sup>&</sup>lt;sup>1</sup>Temporary injury reported at bud break on some cultivars. <sup>2</sup>Injury reported following application to newly transplanted liners.

### **TOLERANT ORNAMENTAL SPECIES** (continued)

Table 7. SHRUBS AND GROUND COVERS

COMMON NAME	SCIENTIFIC NAME
Privet	
Chinese <sup>1</sup>	Ligustrum sinense
Japanese	Ligustrum japonicum
Pyracantha	Pyracantha spp
Rhododendron, Catawba	Rhododendroncatawbiense
Rose	Rosa spp
Sweet Flag	Acorus calamus
Sweetspire, Virginia	Itea virginica
Tea Olive	Osmanthus fragrans
Viburnum	
Arrowwood	Viburnum dentatum
Pink Dawn	Viburnum x bodnantense
Sweet <sup>1</sup>	Viburnum odoratissimum
Weigela	Weigela florida

<sup>&</sup>lt;sup>1</sup>Injury reported following application to newly transplanted liners.

Table 8. NON-BEARING FRUIT AND NUT TREES AND VINES

COMMON NAME	SCIENTIFIC NAME
Apples	Malus spp
Blueberry, Huckleberry	Vaccinium spp
Bramble	Rubus spp
Cherry, Sweet	Prunus avium
Citrus Fruits	Citrus spp
Grapes	Vitis spp
Olives	Olea spp
Peach	Prunum persica
Pears	Pyrus communis
Prunes	Prunus spp
Stone Fruits	Prunus spp
Tree Nuts	
Walnut	Juglans spp
Chestnut	Castanea spp
Pecan	Carya illionoinensis
Pistachio	Pistacia vera
Almond	Prunus dulcis
Filbert	Corylus maxima

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#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

#### PESTICIDE STORAGE

Keep pesticide in original container.

Store in a cool, dry, secure place.

Do not put formulated or dilute spray solution into food or drink containers.

Do not contaminate food or foodstuffs.

Do not store or transport near feed or food.

Do not use or store in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night (800) 892-0099.

#### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### **CONTAINER DISPOSAL**

Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Manufactured for: **Valent U.S.A. Corporation** P.O. Box 8025 Walnut Creek, CA 94596-8025 www.valent.com

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