

961-370

8/7/2010

1/12



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

AUG 4 2010

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Ms. Jeanette A. Covert  
Product & Regulatory Associates, LLC  
Agent for Lebanon Seaboard Corporation  
P.O. Box 1683  
Voorhees, NJ 08043

SUBJECT: Application for Pesticide Notification (PRN 98-10)  
Request Marketing Statements and Warranty Statement Changes  
EPA Reg. No.961-370  
Application Dated August 7, 2009

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 08/07/09 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-5335 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

*Rachel C. Holloman*  
Paul J. Mastradone, Ph.D., Acting *for*  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
Environmental Protection Agency  
Washington, DC 20460

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

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number Lebanon Seaboard Corporation/961-370	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Lebanon Pro Preen 1.875	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Lebanon Seaboard Corporation 1600 East Cumberland Street Lebanon, PA 17042 <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: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  AUG - 4 2010
<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 revised warranty claims as described in cover letter. This notification is consistent with the guidance of PR Notice 98-10 and the requirements of EPA regulations at 40 CFR 152.46 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec.001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the requirements 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	
* Certification must be submitted				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		<input type="checkbox"/> Paper	
				<input checked="" type="checkbox"/> Other (Specify) _____ bag	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container to be determined		5. Location of Label Directions <input checked="" type="checkbox"/>	
6. Manner in Which Label is Affixed to Product			<input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input checked="" 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 Jeanette Covert		Title Authorized Representative for Lebanon		Telephone No. (Include Area Code) 856.751.3432	
<b>Certification</b> 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.					<b>6. Date Application Received (Stamped)</b>  
2. Signature 		3. Title Authorized Representative for Lebanon Seaboard Corporation			
4. Typed Name Jeanette Covert		5. Date 8-07-09			

# Product & Regulatory Associates, L.L.C.

August 7, 2009

Ms. Joanne Miller (PM-23)  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

Subject: Lebanon Pro Preen  
EPA Reg. No. 961-370  
Notification Warranty

Dear Ms. Miller:

As its authorized representative, Lebanon Seaboard Corporation wishes to submit a notification to revise labeling for Lebanon Pro Preen, EPA Reg. No.961-370. This notification is consistent with PR Notice 98-10.

Revisions include:

- Notification Warranty on page 8 and 9.
- Additional Marketing claims on page 9.

To complete this application, enclosed please find:

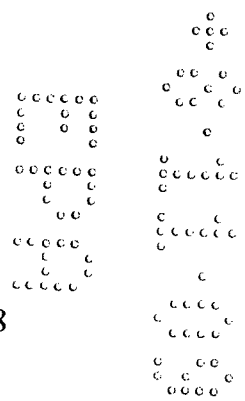
- Application for Pesticide: EPA Form 8750-1
- One highlighted copy of the revised labeling dated 8-07-09
- One clean copy of the revised labeling dated 8-07-09
- One CD e-label file name 000961-00370.20090807.NotifWarranty.pdf

I trust that this information will assist the Agency in its efforts to complete this notification. If you have any question in regard to this mater, feel free to contact me at (856) 751-3432 or jacouvert@comcast.net.

Sincerely,

*Jeanette Covert*  
Jeanette Covert  
Authorized Representative of Lebanon Seaboard Corporation

cc: Sylvia Whitman, Lebanon Seaboard Corporation



4/12



A preemergence herbicide for control of certain broadleaf weeds and annual grasses in:

- Landscape Ornamentals
- Christmas Tree Plantations
- Container Grown Ornamentals
- Field Grown Ornamentals
- Ground Covers / Perennials
- Non-bearing Fruit and Nut Trees
- Non-bearing Vineyards
- Non-cropland

Active Ingredients:

trifluralin.....	1.500%
isoxaben .....	0.375%
Other Ingredients: .....	98.125%
Total .....	100.000%

Contains .375 pounds active ingredient per 20 pound bag. U.S. Patents 4,636,243 and 5,086,184

Trifluralin CAS. No. 1582-09-8

Isoxaben CAS. No. 82-558-50-7

EPA Reg. No. 961-370

(L) (D)

EPA Est. No. 961-PA-01:961-IL-01

Superscript used is first letter of lot number.

Manufactured by:

**LEBANON SEABOARD CORPORATION**  
**1600 EAST CUMBERLAND STREET**  
**LEBANON, PA 17042**      [www.LebanonTurf.com](http://www.LebanonTurf.com)  
**Net Weight: xxx (xx kg)**

**READ THE LABEL BEFORE USING**

**Keep Out of Reach of Children**

**CAUTION PRECAUCION**

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

**Note:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

**NOTIFICATION**

**AUG - 4 2010**

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**CAUTION**

**Causes Moderate Eye Irritation • Harmful If Swallowed Or Inhaled • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals**

**Avoid breathing dust and contact with eyes or clothing.**

**Wash thoroughly with soap and water after handling.**

**Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any water-proof material
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**First Aid**

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

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (888) 208-1368 for emergency medical treatment information.

**Environmental Hazards**

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Drift may result in reduced germination or emergence of nontarget plants adjacent to treated area. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

**Directions for Use**

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

Read all Directions for Use carefully before applying.

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

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements of this label about personal protective equipment (PPE), and restricted entry interval. The requirements in the 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 of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

For applications in landscape settings and in non-cropland sites, do not enter or allow others to enter the treated area until dusts have settled.

**Storage and Disposal**

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

PESTICIDE STORAGE: Store product in its original container in a cool, dry, locked place out of the reach of children and animals.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

Preen Pro herbicide is a preemergence product for control of broadleaf weeds and annual grasses listed elsewhere on this label in container and landscape ornamentals, nursery stock, Christmas trees, ground covers/perennials, non-bearing fruit and nut trees, non-bearing vineyards and non-cropland areas. Apply Preen Pro anytime prior to germination of target weeds, or immediately after cultivation. Length of weed control will vary with rate of Preen Pro applied, weed population, potting media or soil conditions, temperature, watering regime, and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed.

**Use Precautions**

Preen Pro controls weeds growing from seed. Preen Pro does not control established weeds, weeds growing from stolens, rhizomes, or root pieces. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation is required to activate Preen Pro. Optimum weed control is obtained when Preen Pro is activated within 3 days of application. If rainfall or irrigation does not occur within 3 days of application and tillage is possible, Preen Pro may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate Preen Pro within 3 days of application may result in erratic control of annual grasses. Do not apply when wind conditions favor drift of Preen Pro granules from the target area.

**Tolerance of Turfgrass Adjacent to Ornamental Plantings**

Accidental application to turf may occur when applying Preen Pro to ornamental plantings. Preen Pro is not recommended for weed control in turfgrasses, but turfgrasses are generally tolerant to small amounts of this product that fall outside of the intended area of application.

**Treatment Species Not Listed on the Label for Preen Pro**

Users who wish to use Preen Pro on plant species not recommended on this label may determine the suitability for use by treating a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury for 30 to 60 days of normal growing conditions to determine if the treatment is safe to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from use of Preen Pro on plant species not recommended on this label.

**Use Restrictions**

In Arizona: The state of Arizona has not approved Preen Pro specialty herbicide for use on plants grown for agricultural/commercial production; such as on Christmas tree plantations, field grown ornamentals, non-bearing fruit and nut trees and non-bearing vineyards. Repeat applications at 200 pounds per acre and higher should not be made sooner than 60 days after a previous application of Preen Pro. Do not apply over 800 pounds per acre total of Preen Pro within a 12 month period.

Do not aerially apply Preen Pro.

**Application Instructions**

Apply Preen Pro using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or crop injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

**Application Techniques for Applying Preen Pro**

- When using a drop-type spreader, a splash-board mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type rotary applicator such as a whirlybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed.
- A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, difficult to treat areas. Carefully measure the amount of product needed to avoid over application.
- The weight-to-volume conversion table that follows provides equivalent amounts of Preen Pro.

**Preen Pro Broadcast Rates**

Rate	Amount/1000 sq ft		Amount/100 sq ft	
lb/Acre	(lb)	(quarts)	(lb)	(cups)
133	3.07	2.33	0.31	0.93
200	4.60	3.47	0.47	1.33
267	6.13	4.67	0.61	1.87

\*One pound of Preen Pro = 0.75 quart = 3 cups

**Weeds Controlled or Suppressed by Preen Pro**

**Weeds Controlled When Applied at 133 lb/acre (3.1 lb/1000 sq ft)**

Common Name	Scientific Name
aster, slender	Aster exilis
barnyardgrass	Echinochloa crus-galli
bluegrass, annual	Poa annua
bursage, annual	Ambrosia acanthicarpa
celery, wild	Apium leptophyllum
chickweed, common	Stellaria media
clover white	Trifolium repens
crabgrass	Digitaria spp.
cudweed, purple	Gnaphalium purpureum
cupgrass, southwestern	Eriochloa gracilis
fiddleneck, coast	Amsinckia intermedia
filaree, redstem	Erodium cicutarium
fleabane, blackleaved	Conyza bonariensis
fleabane, dwarf	Conyza ramosissima
foxtail, yellow	Setaria glauca
groundcherry, lanceleaf	Physalis lanceifolia
henbit	Lamium amplexicaule
horseweed	Conyza canadensis
junglerice	Echinochloa colonum
knotweed, prostrate	Polygonum aviculare

lambsquarters, common  
 mallow, little  
 mustard, Indian  
 mustard, wild  
 nightshade, black  
 oat, wild  
 panicum, fall  
 pepperweed, Virginia  
 pigweed  
 pineappleweed  
 plantain, slender  
 purslane, common  
 radish, wild  
 ragweed, common  
 rocket, London  
 rockpurslane, desert  
 shepherdspurse  
 sibara  
 smartweed, Pennsylvania  
 sowthistle, annual  
 speedwell, purslane  
 sprangletop, Mexican  
 telegraphplant  
 thistle, Russian  
 witchgrass

Chenopodium album  
 Malva parviflora  
 Brassica juncea  
 Sinapis arvensis  
 Solanum nigrum  
 Avena fatua  
 Panicum dichotomiflorum  
 Lepidium virginicum  
 Amaranthus spp.  
 Matricaria matricarioides  
 Plantago elongata  
 Portulaca oleracea  
 Raphanus raphanistrum  
 Ambrosia artemisiifolia  
 Sisymbrium irio  
 Calandrinia ciliata  
 Capsella bursa-pastoris  
 Sibara virginica  
 Polygonum pennsylvanicum  
 Sonchus oleraceus  
 Veronica peregrina  
 Leptochloa univervia  
 Heterotheca grandiflora  
 Salsola iberica  
 Panicum capillare

**In Addition to the Weeds Listed at the 133 lb/acre Rate, the Following Weeds Will Be Controlled at 200 lb/acre (4.6 lb/1000 sq ft)**

Common Name	Scientific Name
aster, heath	Aster ericoides
bittercress	Cardamine oligosperma
bittercress, hairy	Cardamine hirsuta
brassbuttons, southern	Cotula australis
carrot, wild	Daucus carota
chamberbitter	Phyllanthus urinaria
chickweed, mouseear	Cerastium vulgatum
dandelion	Taraxacum officinale
eclipta	Eclipta prostrata
fireweed	Erechtites hieracifolia
foxtail, giant	Setaria faberi
galinsoga, hairy	Galinsoga ciliata
geranium, Carolina	Geranium carolinianum
groundsel, common	Senecio vulgaris
ladysthumb	Polygonum persicaria
lettuce, prickly	Lactuca serriola
lovegrass	Eragrostis spp.
mallow, dwarf	Malva rotundifolia
marestail	Hippuris vulgaris
mayweed	Anthemis cotula
morningglory, ivyleaf	Ipomoea hederacea
mustard, black	Brassica nigra
pennywort	Hydrocotyle spp.
phyllanthus, long-stalk	Phyllanthus tenellus
plantain, bracted	Plantago aristata
plantain, broadleaf	Plantago major
plantain, buckhorn	Plantago lanceolata
pokeweed, common	Phytolacca americana
rockpurslane, redmaids	Calandrinia ciliata var.
menziesii	
ryegrass, annual	Lolium multiflorum
sida, prickly	Sida spinosa
sorrell, red	Rumex acetosella
speedwell, thymeleaf	Veronica serpyllifolia
spurge, hyssop	Euphorbia hyssopifolia
spurge, spotted	Euphorbia maculata
sweetclover, yellow	Melilotus officinalis
tansymustard, green	Descurainia pinnata
velvetleaf	Abutilon theophrasti
woodsorrel, yellow	Oxalis stricta

**In Addition to the Weeds Listed at the 133 lb/acre and 200 lb/acre Rates, the Following Weeds Will Be Controlled at 267 lb/acre (6.1 lb/ 1000 sq ft)**

Common Name	Scientific Name
barley, hare	Hordeum leporinum
bromegrass	Bromus spp.
burclover, California	Medicago polymorpha
cheat	Brumus Secalifusc
datura	Datura spp.
dogfennel	Eupatorium capillifolium
eveningprimrose	Oenothera spp.
fescue, rattail	Vulpia myuros
filaree, whitestem	Erodium moschatum
goosefoot, nettleleaf	Chenopodium murale
goosegrass	Eleusine indica
jimsonweed	Datura stramonium
knotweed, silversheath	Polygonum argyrocoleon

kochia  
 medic, black  
 mullein, turkey  
 nettle, burning  
 nettle, stinging  
 oxtongue, bristly  
 pimpernel, scarlet  
 sandbur, field  
 signalgrass  
 sowthistle, spiny  
 spurge, petty  
 spurge, prostrate  
 stinkgrass  
 sunflower  
 swinecress  
 thistle, musk  
 willoweed, panicle  
 woodsorrel, creeping

Chia scoparia  
 Cicago lupulina  
 Eremocarpus setigerus  
 Urtica urens  
 Urtica dioica  
 Picris echioides  
 Anagallis arvensis  
 Cenchrus incertus  
 Brachiaria spp.  
 Sonchus asper  
 Euphorbia pepilus  
 Euphorbia humistrata  
 Eragrostis cilianensis  
 Helianthus spp.  
 Coronopus didymus  
 Carduus nutans  
 Epilobium paniculatum  
 Oxalis corniculata

**Note: Injury on the following plant species has been observed following applications of Preen Pro and use is not recommended.**

Acanthus mollis (oak leaf acanthus)  
 Ajuga spp. (bugle)  
 Arenaria montana (mountain sandwort)  
 Brassica spp. (mustard)  
 Dicentra luxuriant (luxuriant bleeding heart)  
 Digitalis purpurea (foxglove)  
 Echinacea purpurea (purple coneflower)  
 Euonymus alatus 'compacta' (dwarf burning bush)  
 Euphorbia spp. (spurge)  
 Geranium cinereum 'Ballerina' (ballerina cranesbill)  
 Gypsophila paniculata (white festival baby's breath)  
 Hydrangea spp. (hydrangea)  
 Iberis spp. (candytuft)  
 Juniperus horizontalis 'Prince of Wales' (Prince of Wales juniper)  
 Melaleuca quinquenervia (cajeput tree)  
 Phlox paniculata (summer phlox)  
 Pulmonaria longifolia (Bertram Anderson lingwort)  
 Rhododendron carolinianum (Carolina rhododendron)  
 Rhododendron catawbiense 'Roseum elegans' (Roseum elegans rhododendron)  
 Sedum spp. (stonecrop)  
 Vinca minor 'Atropurpurea' (wine periwinkle)  
 Yucca recurvifolia (green yucca)

**In Addition to the Weeds Controlled, the Following Weeds Will Be Partially Controlled or Suppressed at 267 lb/acre (6.1 lb/1000 sq ft)**

Common Name	Scientific Name
bindweed, field	Convolvulus arvensis
carpetweed	Mollugo verticillata
dock, curly	Rumex crispus
johnsongrass (seedling)	Sorghum halepense
mallow, Venice	Hibiscus trionum
milkweed, honeyvine	Ampelamus albidus
morningglory, tall	Ipomoea purpurea
panicum, Texas	Panicum texanum
pursley, Florida	Richardia scabra
shattercane	Sorghum bicolor

**Preen Pro May Be Used On The Following Established Plant Species**

(Note: Limitations on recommended treatment methods)

**Labeled Uses**

**Ornamental Plantings**

Preen Pro is recommended as a preemergence treatment for control of certain broadleaf weeds and annual grasses in container grown ornamentals, landscape ornamentals, field grown ornamentals, ground covers/perennials, Christmas trees, non-bearing fruit and nut crops, and non-bearing vineyards. Apply Preen Pro anytime prior to germination of target weeds, or immediately after cultivation.

Refer to the "General Information" section of this label for General Use Precautions and information on application, application rates and weeds controlled.

**Special Use Precautions**

To avoid possible injury, do not apply Preen Pro to:

- nursery, forest, or Christmas tree: seedling beds, cutting beds, or transplant beds.
- nursery seedbeds or forest or Christmas tree seedling transplant beds.
- unrooted liners or cuttings that have been planted in pots for the first time.
- pots less than four inches wide.
- bedding plants or areas where bedding plants will be planted or transplanted within one year following application.
- ground covers until they are established and well rooted.

Do not apply Preen Pro to newly transplanted ornamentals, nursery stock, Christmas trees, ground covers, non-bearing fruit and nut trees and non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur.

Repeat applications at 200 pounds per acre and higher should not be made sooner than 60 days after a previous application of Preen Pro. Do not apply over 800 pounds per acre total of Preen Pro within a 12 month period.

Where loss of stand has occurred in field grown ornamentals, use untreated soil as fill around roots when replacing plants or injury may occur.

**Trees Recommended Treatment Method:  
 C = Container Grown  
 F = Field Grown**

Scientific Name	Common Name	
Abies balsamea	Fir, balsam	C, F
Abies concolor	Fir, white	F
Abutilon hybridum	Albus-flowering maple	C, F
	Luteus-flowering maple	C, F
	Roseus-flowering maple	C, F
	Tangerine-flowering maple	C, F
	Vesuvius red-flowering maple	F
Acer ginnala	Flame maple	F
Acer rubrum	Red maple	F
	Red sunset maple	F
Acer saccharinum	Silver maple	C, F
Alsophila australis	Australian tree fern	C, F
Areacastrum romanzoffianum	Queen palm	C, F
Betula nigra	Birch, river	C, F
Betula papyrifera	Paper birch	F
Brachyichiton populneus	Bottle tree	C, F
Bucida buceras	Black olive	F
Ceratonia siliqua	Carob	F
Cercis canadensis	Redbud	C, F
Chamaecyparis obtusa	Filicoides-fernspray cypress	F
Chamaecyparis obtusa	Gracilis-slender Hinoki cypress	F
Chamaecyparis pisifera	Sawara-false cypress	F
	Squarrosa-moss cypress	F
Chamaedorea cataractarum	Cat Palm	F
	Palm	C, F
Chamaedorea costaricana	Palm	C, F
Chamaedorea elegans	Parlor palm	C, F
Cornus florida	Cloud nine dogwood	C, F
	Dogwood, flowering	C, F
Crataegus viridis	Green hawthorn	F
Cryptomeria japonica	Cryptomeria, Japanese	C, F
Cupaniopsis anacardioides	Carrot wood	F
Cupressocyparis x 'Emerald Isle'	Emerald island leyland cypress	C, F
Cupressus arizonica	Arizona cypress	F
Cupressus glabra	Arizona cypress	F
Cupressus sempervirens	Italian cypress	C, F
Dicksonia antarctica	Tasmanian tree fern	C, F
Elaeagnus angustifolia	Russian olive	C, F
Elaeagnus x 'Gilt edge'	Gilt edge strawberry	C, F
Eucalyptus camaldulensis	Red gum eucalyptus	C, F
Eucalyptus cinerea	Eucalyptus, meaty	C, F
	Silver dollar eucalyptus	F
Eucalyptus microtheca	Coolibah tree	C, F
Eucalyptus sideroxylon	Eucalyptus, red ironbark	F
Ficus benjamina	Ficus	C, F
	Mini ficus	C, F

Fraxinus udhei	Shynash	C, F	barberry	
Ginkgo biloba	Ginkgo (Maidenhair tree)	F	cherry bomb barberry	C, F
Gleditsia triacanthos	Honey locust	F	Barbara Karst	C, F
	Shademaster honey locust	F	California gold	C, F
Heteromeles arbutiflora	Toyon	F		
Illicium floridanum	Florida anise-tree	C, F	Pink pixie	C, F
Juniperus virginiana	Redcedar, Eastern	C, F	Scarlet O'Hara	C, F
Liquidambar styraciflua	Sweetgum, American	F	Temple fire	C, F
Magnolia grandiflora	Magnolia, Southern	C, F	Texas dawn	C, F
Morus alba	White mulberry	F	Green velvet boxwood	C, F
Musa aluminata	Banana	C, F	Buxus x 'Green velvet'	
Oxydendrum arboreum	Sourwood	C, F	Buxus microphylla japonica	C, F
Picea abies	Pendula-weeping Norway spruce	C, F	Buxus microphylla Koreana	F
	Repens-spreading Norway spruce	C, F	Buxus sempervirens	C, F
	Spruce, Norway	C, F	Callistemon citrinus	F
Picea glauca	Conica-dwarf Alberta spruce	C, F	Callistemon viminalis	C, F
	Dwarf Alberta spruce	F	Calluna vulgaris	C, F
Picea glauca conica	Dwarf globe blue spruce	C, F	Camellia japonica	C, F
Picea pungens	Glauca-Colorado blue spruce	C, F	Caryopteris x clandonen	C, F
	Hoopsii-Hoop's blue spruce	C, F	Cassia artemisioides	C, F
	Koster-Koster blue spruce	F	Ceanothus spp.	F
Pinus aristata	Bristlecone pine	F	Cephalotaxus drupacea	C, F
Pinus canariensis	Canary Island pine	F	Cerastium tomentosum	C, F
Pinus contorta	Shore pine, beach pine	F	Chamaecyparis obtusa	
Pinus edlarica	Eldarica pine	C, F	Chamaecyparis pisifera	
Pinus leucodermis	Bosnian pine	C, F	Chamaecyparis pisifera spp.	
Pinus mugo	Pumilio-shrubby swiss mountain pine	C, F	Chrysalidocarpus lutescens	F
	Austrian black pine	C, F	Clethra alnifolia	C, F
Pinus nigra	Monterey pine	F	Cleyera japonica	C, F
Pinus radiata	Eastern white pine	C, F	Coleonema pulchrum	C, F
Pinus strobus	white pine	C, F	Cornus alba	C, F
Pinus strobus	Columnar Scotch pine	C, F	Cornus stolonifera	F
Pinus sylvestris	Scotch pine	C, F		
	Japanese black pine	C, F	Cotinus coggygria	C, F
Pinus thunbergiana	American sycamore	F	Cotinus dammeri	C, F
Platanus occidentalis	Californina sycamore	F		
Platanus racemosa	Podocarpus	F	Cotoneaster adpressus	C, F
Podocarpus spp.	Cottonwood	F	Cotoneaster apiculatus	C, F
Populus deltoides	Chilean mesquite	C, F	Cotoneaster congestus	C, F
Prosopis chilensis	Yoshino flowering cherry	F	Cotoneaster dammeri	C, F
Prunus yedoensis	Bear oak	F	Cotoneaster himalayan	C, F
Quercus ilicifolia	Pin oak	F	Cotoneaster horizontalis	C, F
Quercus palustris	Willow oak	C, F	Cotoneaster opiculata	C, F
Quercus phellos	Red oak	C, F	Cycas revoluta	C, F
Quercus rubra	Live oak	C, F	Cytisus praecox	C, F
Quercus virginiana	Babylon weeping willow	F		
Salix babylonica	Corkscrew willow	F	Cytisus scoparius	C, F
	Giant sequoia	F	Cytisus spp.	F
Sequoiadendron giganteum	Mahogany	F	Daphne odora	C, F
Swietenia mahogani	Yellow tab	F	Daphne crenata	C, F
Tabebuia caraiba	Eastern hemlock	C, F	Deutzia gracilis	C, F
Tsuga canadensis	Chinese elm	F	Dodonea viscosa	F
Ulmus parvifolia	Mexican fan palm	F	Elaeagnus pungens	C, F
Washingtonia robusta			Erica cinerea	C, F

**Shrubs**

**Recommended Treatment Method**  
**C = Container Grown**  
**F = Field Grown**

Scientific Name	Common Name			
Abelia grandiflora	Edward Goucher abelia	C, F		
	Glossy abelia	C, F		
Acacia abyssinica	Abyssinica acacia	C, F		
Acacia redolens	Acacia, prostrate	C, F	Euonymus japonica	
Acacia stenophylla	Shoestring acacia	C, F		
Acalypha wilkesiana	Copper leaf	C, F	Euonymus kiatschovica	C, F
Acer ginnala	Amur maple	C, F	Euonymus vegetus	C, F
Acer palmatum	Coral bark Japanese maple	C, F	Euryops pectinatus	C, F
	Dwarf Japanese maple	C, F	Fatsyhedera japonica	C, F
Agapanthus africanus	Queen Anne Lily of the Nile	C, F	Fatsia japonica	C, F
	Century plant	F	Felicia ameloides	C, F
Agave americana	Cape mallow	C, F	Forsythia intermedia	C, F
Anisodonteia hypomandarum	Red apple aptenia	C, F	Forsythia x 'Spring glory'	C, F
Aptenia cordifolia	Chirimen marlberry	C, F	Gardenia jasminoides	C, F
Ardisia japonica	false spiraea	C, F		
Astilbe arendsii	Astilbe/false spirea	C, F	Gaultheria shallon	C, F
Astilbe chinensis	Japanese painted fern	C, F	Gelsemium sempervirens	C, F
Athyrium nipponicum	coyotebush	F	Genista pilosa	C, F
Baccharis pilularis	William Penn barberry	C, F	Hibiscus rosa-sinensis	C, F
Berberis gladwynensis	Mentor barberry	C, F	Hibiscus syriacus	C, F
Berberis mentorensis	Aurea-golden Japanese barberry	F		
Berberis thunbergii	Crimson pygmy barberry	C, F		
	Rose glow barberry	C, F		
	Atropurea-redleaf Japanese	F		
			Japanese aralia	C, F
			Blue marguerite	C, F
			Forsythia, border	C, F
			Spring glory forsythia	C, F
			August beauty gardenia	C, F
			Gardenia	C, F
			Radican gardenia	C, F
			Salal/lemon leaf	C, F
			Carolina jessamine	C, F
			Woadwaxen	C, F
			Rose of Sharon, Red Bird	C, F
			Rose of Sharon, Red Heart	C, F
			Rose of Sharon, Red Heart	C, F
			Woodbridge	C, F
			Rose of Sharon, Aphrodite	C, F



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Ilex aquifolium	Royal Sharon, Helene	F	Mahonia bealei	leather leaf mahonia	C, F
	Bald holly	F	Mahonia repens	weeping mahonia	C, F
	Gulf coast holly	F	Myrica cerifera	wax myrtle	C, F
Ilex aquipernyi	San Jose holly	C, F	Nandina domestica	Compacta-dwarf heavenly bamboo	C, F
Ilex attenuata	Savannah holly	C, F			
Ilex cornuta	Burford holly	C, F			
	dwarf Burford holly	C, F			
	needle point holly	C, F			
Ilex crenata	Compacta-dwarf Japanese holly	C, F		Harbour dwarf-heavenly bamboo	C, F
				Heavenly bamboo (Nandina)	C, F
Ilex crenata	Convexa holly	C, F		Nana compacta-heavenly bamboo	C, F
	Dwarf Chinese holly	C, F		Nana purpurea-heavenly bamboo	C, F
	Green luster holly	C, F		Woods dwarf-heavenly bamboo	C, F
	Helleri-Heller's Japanese holly	C, F			
	Hetzl's Japanese holly	C, F	Nerium oleander	Hardy red oleander	C, F
	Stokesii Japanese holly	C, F		Oleander	C, F
Ilex glabra	compacta-compact inkberry holly	C, F		Ruby lace oleander	C, F
			Osmanthus fortunei	Fortunes osmanthus	C, F
	Nordica-inkberry holly	C, F	Pachysandra terminalis	Japanese spurge	C, F
Ilex meserveae	Blue boy holly	C, F	Phoenix roeeloelenii	Pigmy date palm	C, F
	Blue girl holly	C, F	Photinia fraseri	Fraser's photinia	C, F
	China boy holly		Pieris japonica	Lily-of-the-valley	C, F
	China girl holly			Mountain fire lily-of-the-valley	C, F
	Ebony magic holly	F		Snowdrift lily-of-the-valley	C, F
Ilex vomitoria	Nana-dwarf yaupon holly	C, F		Temple bells lily-of-the-valley	C, F
	Pendula-weeping yaupon holly	C, F		Valley rose lily-of-the-valley	C, F
	yaupon holly	C, F		Valley valentine lily-of-the-valley	C, F
Illicium annisatum	Mystery gardenia	C, F		Forest flame lily-of-the-valley	C, F
Itea ilicifolia	Henry Garnet holly leaf sweetspire	C, F	Pieris japonica x forestii		
				Mugo-mugho pine	C, F
Ixora collinea	Ixora	C, F	Pinus mugo	Green pittosporum	C, F
Juniperus chinensis	hollywood juniper	C, F	Pittosporum tobira	Wheeler's dwarf pittosporum	C, F
	Media-old gold juniper	C, F		Blue cape plumbago	F
	pfitzer juniper	C, F	Plumbago ariculata	Plumbago	C, F
	Pfitzerana glauca-blue juniper	C, F	Plumbago capensis	Podocarpus macrophyllus	C, F
	Pfitzerana-pfitzer juniper	C, F		Yewpine	C, F
	Sea green juniper	F		Sweet pea shrub	C, F
	Torulosa-hollywood juniper	C, F		Tassel fern	C, F
Juniperus conferta	Emerald sea shore juniper	C, F		Cinquefoil	F
	Shore juniper	C, F		Gold drop potentilla	F
Juniperus horizontalis	Andorra juniper	C, F		Goldfinger potentilla	C, F
	Bar Harbor juniper	C, F		Red ace potentilla	C, F
	Blue chip juniper	C, F		Sunset potentilla	C, F
	Blue rug juniper	C, F		Tangerine potentilla	C, F
	Creeping juniper	C, F		Spring cinquefoil	C, F
	Dwarf Andorra juniper	C, F		Dwarf pink flowering almond	C, F
	Huntington blue juniper	C, F			
	Plumosa-Andorra juniper	C, F			
	Wiltonii-blue carpet juniper	C, F	Potentilla verna		
Juniperus procumbens	Nana-dwarf Japanese garden juniper	C, F	Prunus glandulosa		
Juniperus prostrata	Prostrata juniper	C, F	Pyracantha fortuneana	Lolendei Monrovia pyracantha	C, F
Juniperus sabina	Broadmoor juniper	C, F		Monon pyracantha	F
	Foemina-Hicks juniper	C, F		Red elf hybrid pyracantha	F
	Savin juniper	C, F		Rutgers hybrid pyracantha	C, F
	Tamariscifolia-Tam juniper	C, F		Santa Cruz pyracantha	C, F
Juniperus scopulorum	Emerald green juniper	F		Victory pyracantha	F
Juniperus squamata	Blue juniper	C, F	Rhaphiolepis indica	Charisma-Monruce rhaphiolepis	C, F
	Blue star juniper	C, F		Enchantress-Moness rhaphiolepis	F
	Parsonii juniper	C, F		Rhaphiolepis (India hawthorn)	C, F
Kalmia latifolia	Laurel, mountain	C, F		Springtime-Monme rhaphiolepis	F
Lagerstroemia indica	Crape myrtle	C, F			
Lantana spp.	Lantana	C, F			
Lavandula angustifolia	English lavender	C, F			
Lavandula latifolia	English spike lavender	C, F			
Lavandula officianalis	English lavender	C, F			
Leptospermum scoparium	New Zealand tea tree	C, F	Rhaphiolepis ovata	Roundleaf rhaphiolepis	C, F
Leucothoe axillaris	Leucothoe, coast	C, F	Rhododendron	Cannon's double azalea	C, F
Leucothoe fontanesiana	Leucothoe, drooping	C, F	calendulaceum		
Ligustrum japonicum	Privet, Japanese wax ligustrum	C, F		Flame azalea	F
	yellow tip ligustrum	C, F		Golden flare azalea	C, F
	Privet, glossy	C, F		Klondike azalea	C, F
Ligustrum lucidum	California privet	F	Rhododendron campylocarpum	Butterfly rhododendron	F
Ligustrum ovalifolium	Howardi privet	C, F			
Ligustrum texanum	wax leaf privet	C, F	Rhododendron carolinianum	PJM rhododendron	C, F
	Privet, golden	F	x daurium		
	Vicary golden privet	F	Rhododendron catawbiense	Catawba albiflorum rhododendron	C, F
Ligustrum vulgare	Lodense privet	C, F		Catawba rhododendron	C, F
Livistona chinensis	Chinese fountain palm	F		Lord Roberts rhododendron	C, F
Lonicera fragrantissima	Winter honeysuckle	C, F		Rocket rhododendron	C, F
Lonicera periclymenum	Flowering woodbine	C, F		Cunningham White rhododendron	C, F
	Serotina woodbine	C, F			
	Trumpet honeysuckle	C, F	Rhododendron caucasicum		
Lonicera sempervirens	Fringe flower	C, F	x ponticum		
Loropetalum chinense	Dwarf Oregon grape	C, F	Rhododendron exbury	Cannon's double azalea	C, F
Mahonia aquifolium compacta				golden flare azalea	C, F

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Rhododendron forrestii repens	Klor azalea	C, F	Viburnum opulus sterile	Common snowball viburnum	F
Rhododendron forrestii x griersonianum	God Waterer rhododendron	C, F	Viburnum plicatum tomentosum	Doublefile viburnum	C, F
Rhododendron griffithianum	Jean Marie rhododendron	C, F	Viburnum setigerum	Tea viburnum	F
Rhododendron hybrid spp.	America rhododendron	C, F	Viburnum tinus compactum	Spring bouquet viburnum	F
	English Roseum rhododendron	F	Viburnum trilobum	Cranberry bush	C, F
	Nova Zembla rhododendron	C, F	Viburnum trilobum compactum	Dwarf cranberry bush	C, F
	Scintillation rhododendron	C, F	Viburnum x pragense	Viburnum	C, F
Rhododendron impeditum	Rhododendron	C, F	Weigela florida	Bristol ruby weigela	C, F
Rhododendron indica	Formosa azalea	C, F		Java red weigela	C, F
Rhododendron indica	Waucabusa azalea	C, F		Minuet weigela	C, F
Rhododendron kaempferi	Blue danube azalea	C, F	Xylosma congestum	Xylosma	F
Rhododendron kerume	Coral bells azalea	C, F	Yucca filamentosa	Yucca	C, F
	Hino crimson azalea	C, F			
	Hino pink azalea	C, F			
	Mildred azalea	C, F			
	Snow azalea	C, F			
Rhododendron maximum	Rhodie max (rosebay)	C, F			
Rhododendron mucronulatum	Rhododendron	F			
Rhododendron obtusum	Hino-crimson azalea	C, F			
Rhododendron ponticum	Chionoides rhododendron	C, F			
Rhododendron ponticum	Daphnoides rhododendron	C, F			
Rhododendron x 'purple gem'	Purple gem rhododendron	C, F			
Rhododendron racemosum	Dwarf scarlet wonder rhododendron	C, F			
	Tribly rhododendron	C, F			
	Unique rhododendron	C, F			
	Vulcan rhododendron	C, F			
Rhododendron sassthigiatum x carolinianum	Ramapo rhododendron	C, F			
Rhododendron satzuki	Gumpo pink azalea	C, F			
	Higasa azalea	F			
	Reijn azalea	C, F			
Rhododendron spp. hybrids	Carror azalea	C, F			
	Fashion azalea	C, F			
	Gerard Christina azalea	F			
	Girard Roberta azalea	C, F			
	Golden flare exbury azalea	F			
	Helmut vogel azalea	F			
	Hersey red azalea	F			
	Hot shot azalea	C, F			
	Hume azalea	F			
	Inga azalea	F			
	Irene Koster azalea	C, F			
	President Clay azalea	C, F			
	Tradition azalea	C, F			
Rhus lancea	Sumac, African	C, F			
Rosa rugosa	Ramanas rose	C, F			
Rosmarinus officinalis	Rosemary	F			
Senecio cineraria	Dusty-miller/silver ragweed	C, F			
Skimmia japonica	Japanese skimmia	C, F			
Skimmia revesiana	Reeve's skimmia	C, F			
Solanum rantonetii	Paraguay nightshade	C, F			
Spiraea bumalda	Anthony Waterer spiraea	C, F			
Spiraea x cinerea 'Grefsheim'	First snow spiraea	C, F			
Spiraea japonica	Dolchia spiraea	C, F			
	Japanese alpine spiraea	C, F			
	Shirobana spiraea	C, F			
Spiraea vanhouttei	Bridal wreath	C, F			
Syringa rothomagensis	Chinese lilac	C, F			
Syringa vulgaris	Lilac, common	F			
Taxus cuspidata	Yew, Japanese	F			
Tecomaria capensis	Cape honeysuckle	C, F			
Ternstroemia gymnanthera	Ternstroemia, Japanese	C, F			
Thuja occidentalis	Emerald arborvitae	C, F			
	Globosa-globe arborvitae	C, F			
	Little giant-dwarf arborvitae	C, F			
	Nigra-dark American arborvitae	C, F			
	Pyramidalis arborvitae	C, F			
	Rheingold arborvitae	C, F			
	Techny arborvitae	F			
Thuja occidentalis	Woodwardii arborvitae	C, F			
Thuja orientalis	Aureus nana-dwarf golden arborvitae	C, F			
	Minima glauca-dwarf arborvitae	C, F			
Veitchia merrilli	Christmas palm	F			
Viburnum bodnantense	Pink dawn viburnum	C, F			
Viburnum carlesii	Koreanspice viburnum	C, F			
Viburnum davidii	David viburnum	C, F			
Viburnum japonicum	Viburnum	F			
Viburnum judd (v. X juddii)	Viburnum	C, F			
Viburnum lantana	Wayfaring tree	F			

**Groundcovers/Perennials**

**Recommended Treatment Method:  
C = Container Grown  
F = Field Grown**

Scientific Name	Common Name	
Achillea millefolium	Common yarrow	C, F
Agapanthus africanus	Lily of the Nile	C, F
Agapanthus "Peter Pan"		C, F
Alstroemeria aurea	Peruvian lily	C, F
Ammophila breviligulata	Beechgrass	C, F
Antirrhinum majus	Snapdragon	C, F
Arctotheca calendula	Cape weed	F
Argyranthemum frutescens	Paris daisy	C, F
Artemisia schmidtiana	Angels' hair	C, F
Asparagus retrofractus	Fern	C, F
Asteriscus maritimus	Gold coin daisy	C, F
Astilbe Deutschland	Deutschland astilbe	C, F
Asparagus retrofractus	(No common name)	C, F
Asparagus variegata	Tree fern	C, F
Aster novae-angliae	New England aster	C, F
Aster novi-belgii	New York aster	C, F
Begonia cordifolia	Heartleaf begonia	C, F
Begonia semperflorens	White ambassador begonia	C, F
Bidens ferulifolia	Peter's Gold Bidens	C, F
Brachycome x 'New amethyst'	Swan River Daisy New Amethyst	C, F
Callistephus chinensis	China aster	C, F
Carex spp.	Variiegated carex	C, F
Carpobrotus edulis	Ice plant, largeleaf (see label)	F
Catharanthus roseus	Madagascar periwinkle	C, F
Cerastium tomentosum	Snow in the summer	C, F
Cerastostigma plumbaginoides	Dwarf plumbago	C, F
Chrysanthemum morifolium	Florist's chrysanthemum	C, F
Chrysanthemum sp.	Chrysanthemum species	C, F
Clematis integrifolia caerulea	Blue bell clematis	C, F
Clivia miniata	Kaffir lily	C, F
Coreopsis verticillata	Coreopsis, threadleaf	C, F
Cortaderia selloana	Pampas grass	C, F
Cuphea hyssopifolia	False or Mexican heather	C, F
Cyperus albostratus	Dwarf umbrella grass	C, F
Dahlia x 'Royal dahlia pink'	Dwarf dahlia Wendy pink	C, F
Delosperma alba	White iceplant	F
Descampsia caespitosa	Descampsia	C, F
Dianthus gratianopolitanus	Crimson treasure cheddar pink	C, F
Diets vegeta	Fortnight lily	C, F
Drosanthemum floribundum	Trailing rosea iceplant	F
Drosanthemum hispidum	Iceplant	C, F
Ensete ventricosum	Red abyssinian banana	C, F
Equisetum scirpoides	Dwarf horsetail	C, F
Erianthus ravennae	Hardy pampasgrass	C, F
Erysimum "Bowles mauve"	Wallflower	C, F
Euryops pectinatus	Dwarf euryops	C, F
Estoma grandiflorum	Pink lisianthus	C, F
Festuca ovina glauca	Blue fescue	C, F
Fuchsia x 'Santa Claus'	Santa Claus Fuchsia	C, F
Gaillardia aristata	Blanket flower	C, F
Gaillardia grandiflora	Goblin blanket flower	C, F
Gaura lindheimeri	Gaura	C, F
Gazania rigens leucolaena	Gazania, trailing	C, F
Gazania spp.	Gazania	C, F
Geranium incanum	Cranesbill	C, F
Geranium subcaulescens	Black eyed magenta cranesbill	C, F
Hakonechloa macroaureola	Golden hakonechloa	C, F
Hedera canariensis	Ivy, Algerian	F
Hedera helix	Ivy, English	C, F
Helichrysum petiolatum	White licorice plant	C, F
Hemerocallis spp.	Daylily	C, F
Hesperaloe parviflora	Red yucca	C, F
Heuchera americana	Palace purple	C, F
Heuchera micrantha	Coral bells	C, F

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Hippeastrum hybrid	Amazons	C, F
Hosta 'Francee'	Fra. plantain lily	C, F
Hosta lancifolia	Albo-marginata hosta	C, F
Hosta 'Patriot'	Patriot plantain lily	C, F
Hymenoxys acaulis	Angelita daisy	C, F
Hypericum spp.	St. Johnswort	C, F
Impatiens wallerana	Busy lizzie	C, F
Iris pumila	Yellow dwarf bearded iris	C, F
Iris siberica	Blue siberian iris	C, F
Jasminum nitidum	Angelwing jasmine	C, F
Lampranthus spectabilis	Trailing iceplant	F
Leptospermum scoparium	Broom teatree/manuka	C, F
Liatris spicata	Gay feather	C, F
Limonium perezii	Statice	C, F
Liriope gigantea	White lily turf	C, F
Liriope muscari	Lilac beauty lily turf	C, F
	Majestic lily turf	C, F
	Monroe white lily turf	C, F
	Silvery sunproof lily turf	C, F
	Variogated liriope lily turf	C, F
	Big blue lily turf	C, F
	green/creeping lily turf	C, F
Liriope spicata	Lobelia	C, F
Lobelia erinus	Sweet alyssum	C, F
Lobularia maritima	Honeysuckle, Japanese	F
Lonicera japonica	Dotted loosestrife	C, F
Lysimachia punctata	Stock	C, F
Mathiola incana	Eulalia grass	C, F
Miscanthus sinensis	Bee balm	C, F
Monarda didyma	African iris	C, F
Moraea iridodes	Siskiyou evening primrose	C, F
Oenothera speciosa	Dwarf Mondo grass	C, F
Ophiopogon japonicus	Mondo grass	C, F
	Freeway daisy	C, F
Osteospermum fruticosum	Japanese spurge	C, F
Pachysandra terminalis	Virginia creeper	C, F
Parthenocissus quinquefolia	Zonal geranium	C, F
Pelargonium x hortorum	Ivy geranium	C, F
Pelargonium peltatum	Fountain grass	C, F
Pennisetum alopecuroides	Chrimson fountaingrass	C, F
Pennisetum setaceum	Star cluster	C, F
Pentas lanceolata	Apple blossom penstemon	C, F
Penstemon x 'Apple blossom'	Hartwig penstemon	C, F
Penstemon gentianoides	Russian sage	C, F
Perovskia atriplicifolia	Garden petunias	C, F
Petunia-hybrids	Ribbon grass	C, F
Phalaris arundinacea picta	Mexican hat	C, F
Ratibida columnifera	Blackeyed Susan	C, F
Rudbeckia fulgida	Blackeyed Susan	C, F
Rudbeckia hirta	Dwarf Katie ruellia	C, F
Ruellia brittoniana	Graham's sage	C, F
Salvia grahamii	Mexican bush sage	C, F
Salvia leucantha	Autumn joy stonecrop	C, F
Sedum x 'Autumn joy'	Vera jameson stonecrop	C, F
Sedum x 'Vera jameson'	Little hero marigold	C, F
Targetes patula 'Little hero'	Asaian jasmine	C, F
Trachelospermum asiaticum	Society garlic	C, F
Tulbaghia violacea	St. Paul verbena	C, F
Verbena peruviana	Periwinkle, bigleaf	C, F
Vinca major	Periwinkle, dwarf	F
Vinca minor	Periwinkle	F
Vinca spp.	Dwarf zinnia	C, F
Zinnia elegans		

loganberry	F
macadamia nut	F
nectarine	F
olive	F
orange	F
peach	F
pear	F
pecan	F
pistachio	F
plum	F
pomegranate	F
prune	F
raspberry	F
walnut, black	F
walnut, English	F

\*Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants which will not bear fruit for at least one year after treatment.

**Ornamental Bulbs**

Do not use Preen Pro in bulb production fields. For use in landscape settings only.

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

**Special Use Precautions:**

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch. Do not apply to gladiolus prior to emergence or if corms are less than one inch in diameter. Do not apply to bulbs while they are flowering.

**Shadehouse Areas**

Preen Pro may be applied in open shadehouse-type structures where the natural flow of air is unimpeded. Do not apply in enclosed greenhouses or in enclosed shadehouse-type structures. Do not apply within three weeks prior to enclosing greenhouse or poly-type structures.

**Noncropland**

Preen Pro is recommended as a preemergence treatment for control of certain broadleaf weeds and annual grasses on non-cropland areas such as industrial sites, utility substations, highway guardrails, sign posts, delineators, etc. Apply Preen Pro anytime prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides.

Refer to the "General Information" section of this label for General Use Precautions and information on Application, Application Rates, and Weeds Controlled.

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**Non-bearing Fruit and Nut Tree and Non-bearing Vineyards\***

Recommended Treatment Method:  
F = Field Grown

<b>Common Name</b>	
almond	F
apple	F
apricot	F
avocado	F
blackberry	F
blueberry	F
boysenberry	F
cherry, sour	F
cherry, sweet	F
currant	F
dewberry	F
elderberry	F
fig	F
filbert	F
gooseberry	F
grape, American	F
grape, European	F
grapefruit	F
kiwi	F
lemon	F

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