

## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

April 15, 2024

Bonita Lowry Regulatory Senior Analyst Everris NA Inc. P.O. Box 3310 Dublin, OH 43016

Subject: Notification per PRN 98-10 – Add footnote about use on certain crops in CA

Product Name: Gemini Granular EPA Registration Number: 58185-180

Application Date: 4/4/2024 Case Number: 561925

## Dear Lisa Adamson:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "NOTIFICATION" and placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, please contact Rebecca Lasko at 202-565-2469 or at lasko.rebecca@epa.gov.

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Sincerely,

Kable Bo Davis

Senior Regulatory Specialist Office of Pesticide Programs

Registration Division, Immediate Office

Enclosure

### NOTIFICATION

58185-180

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

04/15/2024

PRODIAMINE	GROUP	3	HERBICIDE
ISOXABEN	GROUP	21	HERBICIDE

## **GEMINI®** Granular

A combination of selective preemergence herbicides for the control of listed grass and broadleaf weeds in established turfgrasses (excluding golf course putting greens and tees), lawns and ornamentals, [conifer and hardwood seedling nurseries], Christmas tree farms, non-crop areas including rights-of-way for transportation systems and utilities (including roadways, roadsides, railways and equipment yards), facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows.

ACTIVE INGREDIENTS:	[% By Wt.]
Prodiamine*	0.40%
Isoxaben**	0.25%
OTHER INGREDIENTS:	99.35%
TOTAL:	100.00%

<sup>\*</sup> CAS No. 29091-21-2

## KEEP OUT OF REACH OF CHILDREN

**CAUTION** 

See back/side/top/bottom [panel/label] for additional precautionary statements [and Directions for Use].

EPA Reg. No. 58185-180

EPA Est. No. xxx-xx-xxx (Insert additional EPA Registered Establishments on FPL)

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

Net Weight: 50.00 lb (22.68 kg)

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<sup>\*\*</sup> CAS No. 82558-50-7

Optional Company Identifier: Everris [With Company Logo: everR15.]

ICL [With Company Logo: AICL ]

Alternate Brand Names: Gemini G

Gemini 0.65G

#### PRECAUTIONARY STATEMENTS

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

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, mixers, loaders, and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) - agricultural plant uses are covered - must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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

## **Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

## **User Safety Recommendations**

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using the toilet. Remove and wash contaminated clothing before reuse.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing.
   As soon as possible, wash thoroughly and change into clean clothing.

	FIRST AID						
If in eyes	If in eyes   • Hold eye open and rinse slowly and gently with water for 15-20 minutes.						
	Remove contact lenses, if present, after first 5 minutes, then continue rinsing						
	eye.						
	Call a poison control center or doctor for treatment advice.						
For additional information in case of emergency call toll free (insert company phone number on Final Printed Label). Have product label with you when calling a poison control center or going for treatment.							

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#### **Environmental Hazards**

This product may be toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment wash water. Do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the landscape will help to prevent runoff to water bodies or drainage systems.

**Ground Water Advisory**: This pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

**Surface Water Advisory**: This pesticide may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soil and soils with shallow groundwater. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of isoxaben from runoff and sediment.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions and spreading granules only on target areas.

## **Physical-Chemical Hazards**

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

### **DIRECTIONS FOR USE**

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

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

## AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (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
- chemical-resistant footwear plus socks

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## **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 Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, or nurseries.

Keep unprotected persons out of treated areas until dusts have settled.

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#### WEED RESISTANCE MANAGEMENT

For resistance management, please note that Gemini Granular contains both a Group 3/Prodiamine and a Group 21/Isoxaben herbicide. Any weed population may contain plants naturally resistant to Group 3 and/or Group 21 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of Gemini Granular or other Group 3 or 21 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field or other use sites.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g. higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective. Fields should be scouted after application to verify that the treatment was effective.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; and (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method, such as hoeing or tillage. Prevent movement of resistant weed seeds to other sites by cleaning equipment and avoid moving plant material between sites.
- Contact your local company sales representative, extension specialist, and/or certified crop advisor, for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes. Ask if suspected resistant weeds to these modes of action have been found in your region. Do not assume that each listed weed is being controlled by multiple modes of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredients in the product.
- Report any incidence of non-performance of this product against a particular weed species to Everris at 800-492-8255. If resistance is suspected, treat weed escapes with a herbicide having a different mechanism of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.

#### **BEST MANAGEMENT PRACTICES**

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may

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include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistant weeds. Scouting after herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant weed populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in reducing the spread of resistant weed seed.

### PRODUCT INFORMATION

#### Formulation and Mode of Action

Gemini® Granular is a herbicide containing the active ingredient, prodiamine, a member of the dinitroaniline family of herbicides (Group 3) which inhibits mitotic processes in plants, and isoxaben, which has a cellulose biosynthesis inhibitor (CBI) mode of action (Group 21). The actives control susceptible weeds by preventing growth and development of newly germinated seeds. Each bag contains 0.325 pounds active ingredient (0.2 pounds prodiamine per bag plus 0.125 pounds isoxaben per bag). Gemini® Granular is used for pre-emergent control of listed grasses and broadleaf weeds. Weed control is most effective when Gemini® Granular is activated by at least 0.5 inches of rainfall or irrigation.

## **Uses and Application**

Apply Gemini® Granular for selective pre-emergence control of listed grass and broadleaf weeds in the following areas:

- Established turfgrasses (excluding golf course putting greens and tees)
- Lawns
- Container, field-grown, and landscape ornamentals
- [Conifer and hardwood seedling nurseries]
- Non-crop areas including managed rights-of-way for transportation systems and utilities (such as roadways, roadsides, railways, and equipment yards)
- Non-crop facilities including substations, tank farms, pumping stations, parking and storage areas
- Non-grazed fence rows
- Christmas tree farms

#### **New Plantings, Replanting and Rotational Plantings**

For a period of 1 year after treating an approved use site with Gemini® Granular, plant only ornamental species listed as tolerant on this label unless the following test has shown that indicator species grow normally:

Sow several test strips of an indicator plant such as wheat, sorghum or corn into the treated area.
 If the indicator plants germinate and grow normally to a height of 12 inches with normal root development, it is safe to plant.

In areas disturbed by new plantings or replanting of labeled species, it may be necessary to re-treat exposed soil to maintain satisfactory weed control, but [to prevent exceeding the maximum annual limit of prodiamine] do not apply more than 375 lbs. of product per acre per year.

## PRODUCT USE RESTRICTIONS

- Do not graze or feed livestock forage cut from areas treated with Gemini® Granular.
- Do not apply Gemini® Granular to plants that will be consumed for food use.

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- Do not apply to golf course putting greens and tees.
- Do not exceed a dosage of 2.43 pounds active ingredient per acre (375 pounds of Gemini Granular per acre) (1.5 pounds prodiamine and 0.93 pounds isoxaben) per year on any use site.
- The state of Arizona has not approved this product for use on agricultural commodities. If grown for commercial production, use on the following sites/crops is prohibited: container grown field ornamentals, field-grown ornamentals, ornamental bulbs, and Christmas tree/conifer plantations.
- Not for use on ornamental bulbs grown for commercial production in California.
- Not for sale, distribution, or use in New York State.
- Do not apply by air.

Treatment of Turfgrass or Ornamental Species Not Listed on the Label for Gemini® Granular: Users who wish to use Gemini® Granular are limited to non-food, ornamental plant species in labeled use sites. Prior to large scale application, user should trial plant species not listed on this label.

### Gemini® Granular Rates:

Table 1. Gemini® Granular Application Rates

	Low Rate	Medium Rate	High Rate	Do Not Exceed The Maximum Annual Rate Of:
Pounds per Acre	100	150	200	375
Bags per Acre	2	3	4	7.5
Pounds per 1000 sq.ft.	2.3	3.4	4.6	8.6
Grams per sq. ft.	1.0	1.6	2.1	3.9

Table 2. Weeds Controlled or Suppressed by Gemini® Granular

		Ra	Rates (lbs/acre) C=Control S=Suppression		
Common Name	Scientific Name	_			
		100	150	200	
Broadleaf Weeds					
Amaranth, Livid	Amaranthus blitum	[C	С	С	
Aster, Heath[ <sup>†</sup> ]	Symphyotrichum ericoides[†]	С	С	С	
Aster, Slender	Symphyotrichum divaricatum	С	С	С	
Betony, Florida <mark>[†]</mark>	Stachys floridana <mark>[†]</mark>	С	С	С	
Bittercress, Hairy[†]	Cardamine hirsuta <mark>[†]</mark>	С	С	С	
Bittercress, Little Western[†]	Cardamine oligosperma <mark>[†]</mark>	С	С	С	
Burclover, California <mark>[†]</mark>	Medicago polymorpha <mark>[†]</mark>	С	С	С	
Burnweed, American <mark>[†]</mark>	Erechtites hieraciifolius <mark>[†]</mark>	С	С	С	
Bursage, Annual	Ambrosia acanthicarpa	С	С	С	
Burweed, Field	Soliva sessilis	С	С	С	

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Common Name	Scientific Name	C=0	ites (Ibs/a Control Suppressi	-
		100	150	200
Carpetweed	Mollugo verticillata	С	С	С
Carrot, Wild <mark>[<sup>†</sup>]</mark>	Daucus carota <mark>[†]</mark>	С	С	С
Chamber-bitter <mark>[†]</mark>	Phyllanthus urinaria <mark>[†]</mark>	С	С	С
Chamomile, Stinking (Mayweed) <mark>[<sup>†</sup>]</mark>	Anthemis cotula <mark>[†]</mark>	С	С	С
Chickweed, Common	Stellaria media	С	С	С
Chickweed, Mouseear[†]	Cerastium fontanum ssp. vulgare[†]	С	С	С
Clover, White	Trifolium repens	С	С	С
Cudweed, Purple	Gamochaeta (Gnaphalium) purpurea	С	С	С
Dandelion <mark>[<sup>†</sup>]</mark>	Taraxacum officinale[†]	С	С	С
Dogfennel <mark>[†]</mark>	Eupatorium capillifolium[†]	С	С	С
Eclipta (False Daisy) [†]	Eclipta prostrata (alba) [†]	S	S	S
Evening-Primrose[†]	Oenothera spp. [†]	S	S	S
Feverfew, Santa Maria[†]	Parthenium hysterophorus[†]	С	С	С
Fiddleneck, Common	Amsinckia menziesii var. intermedia	С	С	С
Filaree, Redstem <mark>[<sup>†</sup>]</mark>	Erodium cicutarium[†]	С	С	С
Filaree, Whitestem	Erodium moschatum	С	С	С
Fleabane, Dwarf	Conyza ramosissima	С	С	С
Fleabane, Hairy	Conyza (Erigeron) bonariensis	С	С	С
Galinsoga, Hairy <mark>[†]</mark>	Galinsoga quadriradiata[†]	С	С	С
Geranium, Carolina[†]	Geranium carolinianum[†]	С	С	С
Goosefoot, Nettleleaf[†]	Chenopodium murale[†]	С	С	С
Groundcherry, Cutleaf	Physalis angulata	С	С	С
Groundsel, Common[†]	Senecio vulgaris <mark>[†]</mark>	С	С	С
Henbit	Lamium amplexicaule	S	S	S
Horseweed (Marestail)	Conyza (Erigeron) canadensis	С	С	С
Jimsonweed[†]	Datura stramonium <mark>[†]</mark>	С	С	С
Knotweed, Prostrate	Polygonum aviculare	С	С	С
Knotweed, Silversheath	Polygonum argyrocoleon	С	С	С
Knotweed	Polygonum spp.	С	С	С
Kochia (Burningbush)	Bassia (Kochia) scoparia	С	С	С
Ladysthumb	Persicaria maculosa (Polygonum persicaria)	С	С	С
Lambsquarters, Common	Chenopodium album	С	С	С
Lettuce, Prickly <mark>[<sup>†</sup>]</mark>	Lactuca serriola <mark>[†]</mark>	S	S	S

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Common Name	Scientific Name	C=0	ites (Ibs/a Control Suppressi	
		100	150	200
Mallow, Common	Malva neglecta	С	С	С
Mallow, Little	Malva parviflora	S	S	S
Mallow, Venice[†]	Hibiscus trionum <mark>[†]</mark>	S	S	S
Medic, Black <mark>[†]</mark>	Medicago lupulina <mark>[†]</mark>	С	С	С
Morningglory, lvyleaf <mark>[†]</mark>	Ipomoea hederacea <mark>[†]</mark>	С	С	С
Morningglory, Tall <mark>[†]</mark>	Ipomoea purpurea <mark>[†]</mark>	С	С	С
Mullein, Turkey <mark>[†]</mark>	Croton setigerus[†]	С	С	С
Mustard, Black	Brassica nigra	С	С	С
Mustard, Indian	Brassica juncea	С	С	С
Mustard, Wild	Sinapis arvensis	С	С	С
Nettle, Burning[ <sup>†</sup> ]	Urtica urens <mark>[†]</mark>	С	С	С
Nightshade, Black	Solanum nigrum	С	С	С
Oxalis, Buttercup <mark>[†]</mark>	Oxalis pes-caprae <mark>[†]</mark>	С	С	С
Oxtongue, Bristly[†]	Helminthotheca (Picris) echioides[†]	С	С	С
Parsley, Marsh	Cyclospermum leptophyllum	С	С	С
Pennywort <mark>[†]</mark>	Hydrocotyle spp. [†]	С	С	С
Pepperweed, Virginia	Lepidium virginicum	С	С	С
Phyllanthus, Long-stalked[†]	Phyllanthus tenellus <mark>[†]</mark>	С	С	С
Pigweed	Amaranthus spp.	С	С	С
Pigweed, Redroot	Amaranthus retroflexus	С	С	С
Pimpernel, Scarlet <mark>[<sup>†</sup>]</mark>	Anagallis arvensis <mark>[†]</mark>	С	С	С
Pineappleweed	Matricaria discoidea	С	С	С
Plaintain, Bracted	Plantago aristata	С	С	С
Plantain, Broadleaf	Plantago major	С	С	С
Plantain, Buckhorn	Plantago lanceolata	С	С	С
Plantain, Slender	Plantago heterophylla	С	С	С
Poinsettia, Wild (Mexican Fireplant) [/]	Euphorbia (Poinsettia) heterophylla <mark>[†]</mark>	С	С	С
Pokeweed, Common[ <sup>†</sup> ]	Phytolacca americana <mark>[†]</mark>	С	С	С
Purslane, Common	Portulaca oleracea	С	С	С
Pusley, Florida	Richardia scabra	С	С	С
Radish, Wild	Raphanus raphanistrum	С	С	С
Ragweed, Common	Ambrosia artemisiifolia	С	С	С
Redmaids, Fringed[†]	Calandrinia ciliata <mark>[†]</mark>	С	С	С
Rockcress, Virginia Winged	Sibara (Planodes) virginica	С	С	С

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Common Name	Scientific Name	Rates (lbs/acre) C=Control S=Suppression		
		100	150	200
Rocket, London <mark>[<sup>†</sup>]</mark>	Sisymbrium irio <mark>[†]</mark>	С	С	С
Russian-thistle <mark>[†]</mark>	Salsola (Kali) tragus <mark>[†]</mark>	С	С	С
Shepherdspurse	Capsella bursa-pastoris	С	С	С
Sida, Prickly <mark>[<sup>†</sup>]</mark>	Sida spinosa <mark>[†]</mark>	С	С	С
Smartweed, Pennsylvania <mark>[†]</mark>	Persicaria pensylvanica (Polygonum pensylvanicum) [†]	С	С	С
Sorrel, Red[ <sup>†</sup> ]	Rumex acetosella[†]	С	С	С
Sowthistle, Annual	Sonchus oleraceus	С	С	С
Sowthistle, Spiny[ <sup>†</sup> ]	Sonchus asper <mark>[†]</mark>	С	С	С
Spanishneedles[†]	Bidens alba <mark>[†]</mark>	С	С	С
Speedwell, Persian[†]	Veronica persica[†]	С	С	С
Speedwell, Purslane	Veronica peregrina	С	С	С
Speedwell, Thymeleaf[ <sup>†</sup> ]	Veronica serpyllifolia <mark>[†]</mark>	С	С	С
Spurge, Garden (Pillpod Sandmat) [1]	Euphorbia (Chamaesyce) hirta[†]	С	С	С
Spurge, Hyssop[ <sup>†</sup> ]	Euphorbia (Chamaesyce) hyssopifolia[†]	С	С	С
Spurge, Petty <mark>[<sup>†</sup>]</mark>	Euphorbia peplus <mark>[†]</mark>	С	С	С
Spurge, Prostrate (Ground)	Euphorbia (Chamaesyce) humistrata	С	С	С
Spurge, Spotted[ <sup>†</sup> ]	Euphorbia (Chamaesyce) maculata[†]	С	С	С
Sunflower <sup>[†]</sup>	Helianthus spp. [†]	С	С	С
Sweetclover, Yellow[ <sup>†</sup> ]	Melilotus officinalis <mark>[†]</mark>	С	С	С
Swinecress, Lesser	Lepidium (Coronopus) didymum	С	С	С
Tansymustard, Green[†]	Descurainia pinnata ssp. brachycarpa[†]	С	С	С
Telegraphplant	Heterotheca grandiflora	С	С	С
Thistle, Musk <mark>[<sup>†</sup>]</mark>	Carduus nutans[†]	С	С	С
Vetch, Common[ <sup>†</sup> ]	Vicia sativa <mark>[†]</mark>	С	С	С
Waterbuttons, Southern[†]	Cotula australis <mark>[†]</mark>	С	С	С
Willowherb, Northern (Fringed) [†]	Epilobium ciliatum <mark>[†]</mark>	С	С	С
Willowherb, Panicled[†]	Epilobium brachycarpum[†]	С	С	С
Woodsorrel, Creeping[†]	Oxalis corniculata <mark>[†]</mark>	С	С	С
Woodsorrel, Yellow[/]	Oxalis stricta[†]	S	S	S
<b>Grassy Weeds and Monocots</b>		1	1	
Barnyardgrass	Echinochloa crus-galli	С	С	С
Bluegrass, Annual	Poa annua	С	С	С

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Common Name	Scientific Name	Rates (Ibs/acre) C=Control S=Suppression		
		100	150	200
Crabgrass, Large	Digitaria sanguinalis	С	С	С
Crabgrass, Smooth	Digitaria ischaemum	С	С	С
Crabgrass, Southern	Digitaria ciliaris	С	С	С
Crowfootgrass	Dactyloctenium aegyptium	С	С	С
Cupgrass, Woolly	Eriochloa villosa	С	С	С
Dewflower, Nakedstem (Doveweed) [†]	Murdannia nudiflora <mark>[†]</mark>	С	С	С
Fescue, Rattail <mark>[<sup>†</sup>]</mark>	Vulpia myuros <mark>[†]</mark>	С	С	С
Flatsedge, Baldwin's <mark>[<sup>†</sup>]</mark>	Cyperus croceus <mark>[†]</mark>	С	С	С
Flatsedge, Rice <mark>[<sup>†</sup>]</mark>	Cyperus iria <mark>[†]</mark>	С	С	С
Foxtail, Giant	Setaria faberi	С	С	С
Foxtail, Green	Setaria viridis	С	С	С
Foxtail, Yellow	Setaria pumila (glauca/lutescens)	С	С	С
Goosegrass <sup>1</sup>	Eleusine indica <sup>1</sup>	С	С	С
Itchgrass	Rottboellia cochinchinensis	С	С	С
Johnsongrass <mark>[<sup>†</sup>]</mark>	Sorghum halepense <mark>[†]</mark>	S	S	S
Jungle-Rice	Echinochloa colona	С	С	С
Lovegrass	Eragrostis spp.	С	С	С
Millet, Texas <mark>[<sup>†</sup>]</mark>	Urochloa texana (Panicum texanum) [†]	С	С	С
Panicum, Fall	Panicum dichotomiflorum	С	С	С
Rescuegrass	Bromus catharticus	S	S	S
Signalgrass, Browntop <mark>[<sup>†</sup>]</mark>	Urochloa fusca (Panicum fasciculatum) [†]	С	С	С
Signalgrass, Broadleaf	Urochloa (Brachiaria) platyphylla	С	С	С
Sprangletop <mark>[<sup>†</sup>]</mark>	Leptochloa (Diplachne) spp. [†]	С	С	С
Stiltgrass, Japanese <mark>[†]</mark>	Microstegium vimineum[†]	С	С	С
Wandering Jew <mark>[†]</mark>	Tradescantia zebrina <mark>[†]</mark>	С	С	С
Witchgrass	Panicum capillare	С	С	C]

## [<sup>†</sup> Not for use in California.]

Note to PM: This product can control or suppress the list of weeds in Table 2 at a range of acceptable use rates. The final artwork label will only have one use rate for control or suppression

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<sup>&</sup>lt;sup>1</sup> In many areas, a single application of 100-200 lbs/acre of Gemini® Granular will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, weed control will be most effective by making an initial application of 100 lbs/acre followed by a second application of 100 lbs/acre 60-90 days later.

## for each listed weed indicated by a "C" or an "S" respectively.

## SPECIFIC USE DIRECTIONS - ESTABLISHED TURF Product Information

Gemini® Granular is a selective preemergence herbicide that will control certain listed grass and broadleaf weeds in established turfgrasses including golf courses (excluding putting greens and tees), lawns and sod nurseries. The maximum amount of Gemini® Granular that can be applied per year is given for each turfgrass species in **Table 3** of this label.

## USE RESTRICTIONS - Turfgrass: Golf Courses (excluding golf course putting greens and tees), Lawns, and Sod Nurseries

Do not apply Gemini® Granular to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species. Do not cut (harvest) treated sod before 90 days after application. To avoid turfgrass injury, do not apply to newly set sod until the sod has rooted and exposed edges have filled in.

- Do not apply Gemini® Granular to golf course putting greens or tees
- Do not apply Gemini® Granular to turfgrass grown for seed.
- Do not apply Gemini® Granular to turf under stress by conditions such as, but not limited to; drought, low fertility, or pest damage.

# USE PRECAUTIONS - Turfgrass: Lawns, Sod Nurseries, and Golf Courses (excluding golf course putting greens and tees):

- Disturbing the herbicide barrier with cultural practices such as aerating can result in reduced weed control.
- If the depth of the creeping bentgrass root system becomes shallow and root tips contact treated soil, new root formation can be inhibited. Mowing height can affect the depth of a plant's root system. To avoid this, do not apply Gemini® Granular to creeping bentgrass less than 0.5 inches in height.

For optimum weed control, activate Gemini® Granular with at least 0.5 inches of rainfall or irrigation before weed seeds germinate and within 14 days following application.

## **Timing and Method of Application to Turfgrass**

Apply Gemini® Granular as a single application or in sequential applications to control listed weeds germinating throughout the year. All applications must be made before target weeds germinate because Gemini® Granular will not control listed weeds that have already emerged. Apply Gemini® Granular at a label approved rate using a calibrated applicator designed to distribute granular product evenly.

The amount of Gemini® Granular to apply depends upon the length of residual weed control desired (the higher the application rate, the longer the control), the turf species, and the maximum amount which can be applied to the turf species per calendar year. Specific information is provided in **Table 3**.

## Dosage

Gemini® Granular can be safely applied to the turfgrass species listed in Table 3.

### Table 3. Application Rate of Gemini® Granular per Year by Turf Species

Turf Species	Pounds of Product/Acre <sup>1</sup>	Pounds/1,000 sq. ft. <sup>1</sup>

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Bermudagrass Bahiagrass Centipedegrass Kikuyugrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type) Zoysiagrass	160 – 370	3.7 – 8.4
Buffalograss Kentucky Bluegrass Perennial Ryegrass	77 – 200	1.7 – 4.5
Fine Fescue	77 – 180	1.7 – 4
Creeping Bentgrass (0.5 inch or more in height)	77 – 160	1.7 – 3.6

Gemini® Granular can be applied more than once per year as long as the total amount applied is not greater than the maximum application rate. All applications must be made before listed weed seeds germinate.

## When to Apply Gemini® Granular after Overseeding Turf

Injury to desirable seedlings is likely if Gemini® Granular is applied before the secondary roots of seedlings are in the second inch of soil. To reduce the potential to injure overseeded turf, wait 60 days after seeding or until after the second mowing, whichever is longer, before applying Gemini® Granular.

## When to Overseed After Application - All States

Gemini® Granular will inhibit the development of turfgrass species overseeded too soon after application. Follow rates and intervals in **Table 4** for best overseeding/reseeding results.

Table 4. Waiting Interval before Overseeding Perennial Ryegrass Following Application of Gemini® Granular

Amount of Gemini® Granular	Interval (Months Before Overseeding)*			
Pounds/Acre	North	South		
125	4	4	4	
160	5	4	4	
180	6	5	5	
200		6	6	
238		7	7	
275			9	
325			10	
370			12	

<sup>\*</sup> In AZ, CA, NV, and TX the overseeding interval can be shorter in established bermudagrass that has been overseeded with perennial ryegrass. See the next section for additional information.

**Poa Annua** Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only): Use on golf courses (excluding golf course putting greens and tees), lawns, and sod nurseries when overseeding with perennial ryegrass (minimum seeding rate of 350 lbs/acre).

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Table 5. Amount of Gemini® Granular to Apply to Bermudagrass Overseeded with Perennial Ryegrass

Amount to Apply (pounds/acre)	When to Apply	Expected Control	Use Precautions
	6-8 weeks <b>before</b> ryegrass overseeding <b>Second application:</b> 4-8 weeks <b>after</b> overseeding or when perennial ryegrass roots are in the second inch of soil	1 application for 70% or greater control of <i>Poa annua</i> Second application can enhance control	<ul> <li>Some seedling mortality and temporary reduction in root growth of new seedlings can occur.</li> <li>To reduce the potential for seedling mortality, maintain a moist seedbed with light, frequent irrigation.</li> <li>Make no more than 2 applications per year for this use.</li> <li>Do not make a second application if any injury to the ryegrass is observed after the first application</li> <li>Do not make a second application unless the product was first applied. before overseeding.</li> </ul>

<sup>\*</sup> The amount of Gemini® Granular to apply depends upon: the length of residual control desired (the higher the application rate, the longer the control). **Note:** The higher the rate, the greater the potential for seedling mortality.

# CONTAINER, FIELD-GROWN AND LANDSCAPE ORNAMENTAL PLANTINGS INCLUDING CHRISTMAS TREE FARMS

#### **Product Information**

Apply Gemini® Granular to soil surfaces for preemergence control of listed grass and broadleaf weeds around ornamental shrubs and trees, established perennial vegetation and wildflower plantings and Christmas tree farms. [See **Table 2** for a list of weeds controlled.]

# **USE RESTRICTIONS - Container, Field-grown, and Landscape Ornamental Plantings and Christmas Tree Farms**

- Do not apply Gemini® Granular to seedbeds, or seedling transplant beds. Only apply to established plantings.
- Do not apply to unrooted liners or cuttings.
- Do not apply to pots less than six inches wide.
- Do not apply to ground covers until they are established and well rooted.
- Do not apply to bedding plants or areas where bedding plants will be planted or transplanted within one year after application.
- Do not apply Gemini® Granular to plants inside enclosed structures.
- Do not cover plants treated with Gemini® Granular until 21 days have passed after application.
- Do not apply Gemini® Granular to newly transplanted ornamentals, nursery stock, or ornamental bulbs. Delay application until soil has settled and roots have formed.
- Do not apply after emergence of ornamental bulbs.
- Do not apply to wet foliage.
- Do not apply by air.

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## USE PRECAUTIONS - Container, Field-grown, and Landscape Ornamental Plantings and Christmas Tree Farms

- Disturbing the herbicide barrier with cultural practices that disturb the soil surface such as, but not limited to; moving planted containers, pulling emerged weeds, digging, disking, harrowing, and deep raking can result in reduced weed control.
- Applications of Gemini® Granular over the top of plants with newly forming buds may cause injury. Possible plant injury may be avoided by application as a direct application to the soil surface beneath ornamental plants.

## **Timing and Method of Application**

Gemini® Granular is a preemergence herbicide and will not control listed grass or broadleaf weeds post-germination. It works best when applied to soil that is free of clods, weeds and debris and is activated by at least 0.5 inches of irrigation or rainfall or shallow incorporation to a depth of 1 to 2 inches. Weed control is improved if Gemini® Granular is activated in the soil before weed seeds germinate and within 14 days after application. Apply Gemini® Granular to application sites as directed in **Table 7**.

### **Plant Sensitivity**

Direct application of Gemini® Granular to rapidly growing tissue or buds can injure plants. In the spring when buds are rapidly growing and expanding, over-the-top application of Gemini Granular can injure new growth. However, these effects are temporary. To reduce the possibility of injury, wait to apply Gemini® Granular over the top of newly emerged vegetation until it has hardened off, unless your experience indicates that the plant in question will not be injured by the over-the-top application. After application, immediately apply overhead irrigation to the foliage to rinse Gemini® Granular from plant surfaces onto soil. Apply only to dry foliage to minimize the risk of crop injury.

Table 6. Amount of Gemini® Granular to Apply to Container, Field Grown, and Landscape Ornamental Plantings and Christmas Trees Farms

Amount to Apply Per Application	When to Apply	Comments/Instructions
100-200 lbs to the acre  or  37-75 oz./1,000 sq ft	Any time weed germination is expected.	<ul> <li>Use the higher amount for longer control.</li> <li>Gemini® Granular can be applied more than once per year as long as the total amount of product applied does not exceed 375 lbs./acre (2.43 lbs. active ingredient/acre) per year.</li> </ul>

Table 7. Application Sites and Instructions for Gemini® Granular Use on Container, Field Grown, and Landscape Ornamental Plantings and Christmas Tree Farms

Site	Application Instructions
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Newly-Transplanted Container or Field Nursery Stock	<ul> <li>Do not apply until soil has settled around transplants and roots have formed.</li> <li>Do not apply to wet foliage as damage may occur.</li> <li>Apply after cuttings form roots and are established.</li> <li>To avoid inhibition of the tissue union, apply before budding/grafting or after buds/grafts have taken.</li> <li>Do not apply to pots less than six inches wide.</li> </ul>
Established Container, Field Nursery Stock, or Landscape Plants	Apply at any time as an over-the-top, or soil directed application.
Landscape (or Ornamental) Plantings	<ul> <li>Apply as an over-the-top, or as a soil directed application.</li> <li>Delay applications to newly transplanted ornamentals until soil has settled around transplants.</li> </ul>
Bare Ground Application for Container Placement	<ul> <li>Apply to soil (including mulch, gravel, wood chips, or other permeable base) upon which containerized ornamentals are placed.</li> <li>After Gemini® Granular is applied, use postemergence herbicides to control break though weeds. Or if necessary, perform shallow cultivation or hand weeding to avoid disturbing the herbicide barrier.</li> </ul>
In Shadehouses and Uncovered Polyhouses	<ul> <li>After Gemini® Granular is applied, houses must remain uncovered for at least 21 days.</li> <li>In addition, plants must receive 2 irrigations totaling at least 0.5 inches of water before covering.</li> </ul>
Ornamental Bulbs (Not for use on ornamental bulbs grown for commercial production in California).	Gemini® Granular can be applied to bulbs. Apply before bulbs emerge. Do not apply after emergence.

## **Ornamental Plant Sensitivity**

Gemini® Granular will not likely harm the trees, shrubs, vines and flowers listed below in **Table 8** at the listed application rates. Gemini® Granular can be applied over the top of the listed species. The species that are sensitive to Gemini® Granular when grown in containers are indicated.

When plants are under stress (such as heat, drought, or frost/freeze exposure), some cultivars of listed plants may be sensitive to Gemini® Granular.

Gemini® Granular is not recommended for weed control in the plants listed in Table 9.

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Table 8. Plants Not Likely to be Injured by Gemini® Granular at the Listed Maximum Application Rates

Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Abelia grandiflora 'Edward Goucher'	Abelia 'Edward Goucher'	200
Abelia grandiflora	Glossy Abelia	200
Abelia grandiflora 'Sherwood'[†]	Abelia 'Sherwood'[†]	200
Abies balsamea**	Balsam Fir**	200
Abies concolor**	Concolor Fir**	200
Abies spp.** [†]	Fir species** (Balsam, Fraser, Noble, etc.)	200
Abutilon hybridum[†]	Flowering Maple <mark>[<sup>†</sup>]</mark>	200
Acacia abyssinica <mark>[†]</mark>	Flat Top Acacia <mark>[<sup>†</sup>]</mark>	200
Acacia redolens[†]	Prostrate Acacia[†]	200
Acacia stenophylla <mark>[†]</mark>	Shoestring Acacia <mark>[<sup>†</sup>]</mark>	200
Acalypha wilkesiana <mark>[†]</mark>	Copper Plant[ <sup>†</sup> ]	200
Acer ginnala <mark>[†]</mark>	Amur Maple[†]	200
Acer ginnala <mark>[†]</mark>	Flame Maple <mark>[<sup>†</sup>]</mark>	200
Acer palmatum <mark>[†]</mark>	Japanese Maple <mark>[<sup>†</sup>]</mark>	200
Acer palmatum <mark>[†]</mark>	Coral Bark Japanese Maple[†]	200
Acer palmatum <mark>[†]</mark>	Dwarf Japanese Maple[†]	200
Acer platanoides <mark>[†]</mark>	Norway Maple <mark>[<sup>†</sup>]</mark>	200
Acer rubrum[†]	Red Maple <mark>[<sup>†</sup>]</mark>	200
Acer saccharinum[†]	Silver Maple[ <sup>†</sup> ]	200
Achillea filipendulina[†]	Moonshine /fern-leaf yarrow[†]	200
Achillea millefolium[†]	Common Yarrow[†]	200
Achillea millefolium 'Paprika'[†]	Yarrow 'Paprika' <mark>[<sup>†</sup>]</mark>	100
Achillea millefolium 'Saucy Seduction'[†]	Yarrow 'Saucy Seduction'[/]	100
Achillea spp. [†]	Yarrow[ <sup>†</sup> ]	200
Achillea 'King Edward'[†]	Yarrow 'King Edward' <mark>[<sup>†</sup>]</mark>	200
Achillea tomentosa[†]	Wooly Yarrow[†]	200
Acoelorrhaphe wrightii[†]	Everglades Palm <mark>[<sup>†</sup>]</mark>	200
Actinidia chinensis*[†]	Kiwi*[†]	200
Adonidia merrilli <mark>[†]</mark>	Christmas Palm <mark>[†]</mark>	200
Agapanthus africanus	Lily-of-the-Nile	100
Agapanthus africanus 'Queen Anne'	Lily of the Nile 'Queen Anne'	100
Agapanthus orientalis[†]	Lily of the Nile[†]	100
Agave americana[†]	Century Plant[†]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Akebia quinata <mark>[†]</mark>	Chocolate Vine[†]	200
Albizia julibrissin <mark>[†]</mark>	Mimosa <mark>[<sup>†</sup>]</mark>	200
Allamanda cathartica 'Golden Butterfly' [†]	Golden Trumpet 'Golden Butterfly'[†]	200
Allium cernuum <sup>†</sup> [†]	Lady's Leek, Nodding Onion[†]	200
Alsophila australis[†]	Australian Tree Fern[/]	200
Amelanchier alnifolia[†]	Saskatoon Serviceberry[†]	200
Andromeda polifolia <mark>[†]</mark>	Bog Rosemary <mark>[<sup>†</sup>]</mark>	200
Anemone hybrida <mark>[†]</mark>	Japanese Anemone[†]	200
Anisodonte hypomandarum[†]	Cape Mallow[ <sup>†</sup> ]	200
Aptenia cordifolia 'Red Apple' [†]	Aptenia 'Red Apple' [ <sup>†</sup> ]	200
Aquilegia <mark>[†]</mark>	Columbine 'Dragon Fly'[†]	200
Aquilegia <mark>[†]</mark>	Red & Gold Columbine[ <sup>†</sup> ]	200
Aquilegia spp. [†]	Columbine[†]	200
Araucaria heterophylla[†]	Norfolk Island Pine[†]	200
Archontophoenix cunninghamiana[†]	King Palm[ <sup>†</sup> ]	200
Arctostaphlos densiflora	Vine Hill Manzanita	200
Arctostaphlos uva-ursi	Bearberry	200
Arctotheca calendula[†]	Cape Weed[†]	200
Ardisia japonica 'Chirimen' [†]	Marlberry 'Chirimen' [†]	200
Argyranthemum frutescens 'Butterfly'[f]	Argyranthemum 'Butterfly'[†]	200
Armeria maritima 'Bloodstone'[†]	Sea Thrift 'Bloodstone' [†]	200
Artemisia lactiflora[†]	White Mugwort[ <sup>†</sup> ]	200
Artemisia spp. [†]	Silver Mound Wormwood[ <sup>†</sup> ]	200
Artemisia spp. [†]	Wormwood; Silver Mound, Castle[†]	200
Asparagus densiflorus[†]	Foxtail Fern[ <sup>†</sup> ]	200
Asparagus retrofractus[†]	Ming Asparagus Fern <mark>[<sup>†</sup>]</mark>	200
Aspidistra elatior[†]	Cast Iron Plant <mark>[<sup>†</sup>]</mark>	200
Aster (see Symphyotrichum) [†]	Aster[ <sup>†</sup> ]	200
Athyrium filix-femina[†]	Lady Fern <mark>[<sup>†</sup>]</mark>	200
Athyrium nipponimcum[†]	Japanese Painted Fern[†]	200
Aucuba japonica <mark>[†]</mark>	Japanese Aucuba <mark>[†]</mark>	200
Aucuba japonica 'Goldstrike'[†]	Aucuba 'Goldstrike'[†]	200
Baccharis pilularis <mark>[†]</mark>	Coyote Bush[ <sup>†</sup> ]	200
Bauhinia galpinii <mark>[†]</mark>	Red Bauhinia <mark>[†]</mark>	200
Begonia semperflorens <mark>[†]</mark>	Ambassador White Begonia <sup>[†</sup> ]	200
Begonia spp. [†]	Fibrous Begonia <mark>[<sup>†</sup>]</mark>	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Begonia spp. [†]	Fibrous Begonia: Hardy Grandis[†]	200
Berberis x gladwynensis 'William Penn' [†]	Barberry 'William Penn' <mark>[†]</mark>	200
Berberis x gladwynensis <mark>[†]</mark>	Barberry <mark>[<sup>†</sup>]</mark>	200
Berberis julianae[†]	Wintergreen Barberry <mark>[<sup>†</sup>]</mark>	200
Berberis mentorensis[†]	Mentor Barberry <mark>[†]</mark>	200
Berberis thunbergii 'Crimson Pygmy'	Japanese Barberry 'Crimson Pygmy'	200
Berberis thunbergii 'Concord'	Japanese Barberry 'Concord'	200
Berberis thunbergii[†]	Golden Japanese Barberry[†]	200
Berberis thunbergii 'Rose Glow'[†]	Barberry 'Rose Glow'[†]	200
Berberis thunbergii[†]	Redleaf Japanese Barberry[†]	200
Berberis thunbergii[†]	Cherry Bomb Barberry[†]	200
Berberis verruculosa[†]	Warty Barberry[/]	200
Bergenia cordifolia[†]	Heartleaf Bergenia[†]	200
Betula nigra[†]	River Birch[†]	200
Betula papyrifera[†]	Paper Birch[ <sup>†</sup> ]	200
Betula pendula <mark>[†]</mark>	European White Birch[†]	200
Bidens ferulifolia 'Peter's Gold'[†]	Bidens 'Peter's Gold'[†]	200
Boltonia asteroides 'Snowbank'[†]	Boltonia 'Snowbank' <mark>[†]</mark>	200
Bougainvillea x buttiana 'Barbara Karst' [†]	Bougainvillea 'Barbara Karst'[†]	200
Bougainvillea x buttiana 'California Gold'[†]	Bougainvillea 'California Gold'[†]	200
Bougainvillea x buttiana 'Pink Pixie'[†]	Bougainvillea 'Pink Pixie'[†]	200
Bougainvillea x buttiana 'Scarlet O'Hara'[†]	Bougainvillea 'Scarlet O'Hara'[†]	200
Bougainvillea x buttiana 'Temple Fire'[ <sup>†</sup> ]	Bougainvillea 'Temple Fire'[†]	200
Bougainvillea x buttiana 'Texas Dawn'[†]	Bougainvillea 'Texas Dawn'[†]	200
Bougainvillea x buttiana 'Purple Queen'[†]	Bougainvillea 'Purple Queen'[†]	200
Bougainvillea x buttiana 'Rosenka'[†]	Bougainvillea 'Rosenka'[†]	200
Brachychiton populneus[†]	Bottle Tree[†]	200
Brachycome x 'New Amethyst' [†]	Brachycome 'New Amethyst' [†]	200
Bucida buceras <mark>[†]</mark>	Black Olive[†]	200
Buddleia davidii <mark>[†]</mark>	Butterfly Bush <mark>[<sup>†</sup>]</mark>	200
Buddleia davidii <mark>[†]</mark>	Butterfly-Bush 'Royal Red'[ <sup>†</sup> ]	200
Butia odorata[†]	Pindo Palm <mark>[<sup>†</sup>]</mark>	200
Buxus 'Green Velvet'	Boxwood 'Green Velvet'	100
Buxus microphylla var. japonica	Japanese Boxwood	200
Buxus microphylla 'Green Beauty'	Boxwood 'Green Beauty'	200
Buxus microphylla <mark>[†]</mark>	Japanese Littleleaf Boxwood[f]	200

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Scientific Name	Common Name	Max. Rate/ Application (Ibs/acre)
Buxus microphylla[†]	Korean Boxwood <mark>[<sup>†</sup>]</mark>	200
Buxus sempervirens	Common Boxwood	200
Callistemon citrinus[†]	Lemon Bottlebrush[ <sup>†</sup> ]	200
Callistemon citrinus[†]	Little John Bottlebrush[†]	200
Callistemon citrinus[†]	Crimson Bottlebrush[†]	200
Callistemon viminalis[†]	Weeping Bottlebrush[ <sup>†</sup> ]	200
Callistepheus chinensis[†]	China Aster <mark>[<sup>†</sup>]</mark>	200
Calluna vulgaris[†]	Scotch Heather[ <sup>†</sup> ]	200
Calluna vulgaris 'Spring Torch'[†]	Scotch Heather 'Spring Torch'[†]	200
Camellia japonica	Japanese Camellia	200
Campanula 'Birch Hybrid' <mark>[<sup>†</sup>]</mark>	Bellflower 'Birch Hybrid'[†]	200
Campanula carpatica[ <sup>†</sup> ]	Bellflower; Tussock Flower[ <sup>†</sup> ]	200
Campanula carpatica <mark>[†]</mark>	Tussock Bellflower; (White Clips) [†]	200
Campsis x tagliabuana 'Madame Galen'[†]	Trumpet Creeper 'Madame Galen'[†]	200
Carex[†]	Variegated Carex <mark>[<sup>†</sup>]</mark>	200
Carex albula 'Frosty Curls'[†]	Sedge 'Frosty Curls'[†]	200
Carpobrotus edulis[†]	Ice Plant <mark>[<sup>†</sup>]</mark>	200
Carpobrotus edulis[†]	Largeleaf Ice Plant <mark>[<sup>†</sup>]</mark>	200
Caryopteris clandonensis[†]	Blue Mist Bluebeard <mark>[<sup>†</sup>]</mark>	200
Caryopteris clandonensis[†]	Dark Knight Bluebeard[ <sup>†</sup> ]	200
Cassia artemisioides[†]	Feathery Cassia[†]	200
Cassia eremophila[†]	Senna[†]	200
Catharanthus roseus[†]	Madagascar Periwinkle <mark>[†]</mark>	100
Ceanothus rigidus[†]	Wild Lilac <mark>[<sup>†</sup>]</mark>	200
Ceanothus spp. [†]	Wild Lilac[ <sup>†</sup> ]	200
Ceanothus x pallidus[†]	Lilac 'Marie Bleu' <mark>[†]</mark>	200
Cephalotaxus harringtonia[†]	Japanese Plum Yew <mark>[<sup>†</sup>]</mark>	200
Cerastium tomentosum[†]	Snow in Summer <sup>[†</sup> ]	200
Ceratonia siliqua[†]	Carob <mark>[<sup>†</sup>]</mark>	200
Ceratostigma plumbaginoides[†]	Hardy Plumbago <mark>[<sup>†</sup>]</mark>	200
Ceratostigma willmottianum[†]	Chinese Plumbago[ <sup>†</sup> ]	200
Cercis canadensis[†]	Redbud[/]	200
Chaenomeles japonica[†]	Orange Flowering Quince[†]	200
Chamaecyparis obtusa 'Filicoides' [†]	Fernspray Hinoki Falsecypress[†]	200
Chamaecyparis obtusa 'Gracilis'[†]	Slender Hinoki Falsecypress[†]	200
Chamaecyparis obtusa 'Kosteri'[†]	Koster's Hinoki Falsecypress[f]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Chamaecyparis obtusa 'Nana Gracilis' [†]	Dwarf Hinoki Falsecypress[†]	200
Chamaecyparis obtusa 'Torulosa'[†]	Twisted Hinoki Falsecypress[†]	200
Chamaecyparis pisifera[†]	Sawara Falsecypress[†]	200
Chamaecyparis pisifera 'Squarrosa Minima'[†]	Dwarf Moss False Cypress[†]	200
Chamaecyparis pisifera 'Filifera' [†]	Threadleaf Falsecypress[f]	200
Chamaecyparis pisifera 'Sqarrosa'[†]	Moss Falsecypress[†]	200
Chamaedorea cataractarum[†]	Cat Palm <mark>[<sup>†</sup>]</mark>	200
Chamaedorea costaricana[†]	Cluster Palm <mark>[<sup>†</sup>]</mark>	200
Chamaedorea elegans[†]	Parlor Palm[ <sup>†</sup> ]	200
Chamaerops humilis[†]	European Fan Palm, Mediterranean Fan Palm[†]	200
Chasmanthium latifolium[†]	Northern Sea Oats[†]	200
Chrysanthemum maximum[†]	Shasta Daisy[ <sup>†</sup> ]	200
Chrysanthemum spp. [†]	Chrysanthemum[ <sup>†</sup> ]	200
Citrus spp.*[†]	Citrus species*[†]	200
Clethra alnifolia[†]	Summersweet[*]	200
Cleyera japonica	Japanese Cleyera	200
Clivia miniata[†]	Kafir Lily[†]	200
Coleonema pulchrum[†]	Breath of Heaven[†]	200
Convolvulus cneorum[†]	Bush Morning Glory[†]	200
Convolvulus mauritanicus[†]	Ground Morning Glory[†]	200
Cordyline indivisa[†]	Blue Dracaena[†]	200
Coreopsis[†]	Early Sunrise Coreopsis[†]	200
Coreopsis grandiflora[†]	Coreopsis[†]	200
Coreopsis spp. [†]	Coreopsis (Calliopsis): Early Sunrise,	200
Coreopsis verticillata[†]	Coreopsis[ <sup>†</sup> ]	200
Cornus alba[†]	Siberian Dogwood[ <sup>†</sup> ]	200
Cornus florida 'Cloud Nine'	Dogwood 'Cloud Nine'	200
Cornus florida	Dogwood	200
Cornus kousa	Kousa Dogwood	200
Cornus sericea[†]	Red Osier Dogwood[†]	200
Cornus sericea[†]	Yellowtwig Dogwood[ <sup>†</sup> ]	200
Cornus stolonifera[†]	American Dogwood <mark>[<sup>†</sup>]</mark>	200
Cortaderia selloana <mark>[†]</mark>	Pampas Grass[†]	200
Corylus avellana 'Contorta'[†]	Harry Lauder's Walking Stick[ <sup>†</sup> ]	200
Cotinus coggygria 'Royal Purple'[1]	Smoke Tree 'Royal Purple'[†]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Cotoneaster adpressus[†]	Creeping Cotoneaster[†]	200
Cotoneaster apiculatus[†]	Cranberry Cotoneaster[†]	200
Cotoneaster buxifolius[†]	Box Leafed Cotoneaster[f]	200
Cotoneaster congestus[†]	Pyrenees Cotoneaster[†]	200
Cotoneaster dammeri[†]	Bearberry Cotoneaster[ <sup>†</sup> ]	200
Cotoneaster dammeri[†]	Cotoneaster 'Coral Beauty'[†]	200
Cotoneaster dammeri[†]	Cotoneaster 'Eichholz'[†]	200
Cotoneaster horizontalis[†]	Rockspray Cotoneaster[ <sup>†</sup> ]	200
Cotoneaster microphyllus[†]	Littleleaf Cotoneaster[/]	200
Cotoneaster simonsii[†]	Himalayan Cotoneaster <mark>[<sup>†</sup>]</mark>	200
Crataegus spp. [†]	Hawthorns[ <sup>†</sup> ]	200
Crataegus viridis[†]	Green Hawthorn <mark>[<sup>†</sup>]</mark>	200
Crocosmia 'Lucifer'[†]	Crocosmia 'Lucifer'[/]	200
Cryptomeria japonica <mark>[†]</mark>	Japanese Cryptomeria[ <sup>†</sup> ]	200
Cupaniopsis anacardioides[†]	Carrot Wood[†]	200
Cuphea hyssopifolia[†]	Mexican Heather <mark>[<sup>†</sup>]</mark>	200
x Cupressocyparis leylandii 'Emerald Isle' [†]	Leyland Cypress 'Emerald Isle'[†]	200
x Cupressocyparis leylandii 'Naylor's Blue'[†]	Leyland Cypress 'Naylor's Blue'[†]	200
Cupressus arizonica[†]	Arizona Cypress[†]	200
Cupressus arizonica 'Blue Pyramid'[f]	Arizona Cypress 'Blue Pyramid'[†]	200
Cupressus sempervirens[†]	Italian Cypress <mark>[<sup>†</sup>]</mark>	200
Cupressus sempervirens 'Glauca'[†]	Italian Cypress 'Glauca'[ <sup>†</sup> ]	200
Cycas revoluta[†]	Sago Palm <mark>[<sup>†</sup>]</mark>	200
Cyperus albostriatus[†]	Dwarf Umbrella Grass <sup>[†</sup> ]	200
Cyrtomium fortunei[†]	Holly Fern[†]	200
Cytisus x praecox 'Allgold' [†]	Scotch Broom 'Allgold'[/]	200
Cytisus x praecox 'Warminster'[†]	Broom 'Warminister' <mark>[<sup>†</sup>]</mark>	200
Cytisus scoparius[†]	Scotch Broom[†]	200
Cytisus scoparius 'Hollandia'[†]	Scotch Broom 'Holandia'[†]	200
Dahlia[†]	Dwarf Dahlia Wendy Pink <mark>[<sup>†</sup>]</mark>	200
Dahlia hybrid <mark>[†]</mark>	Dwarf Dahlia[†]	200
Dalea greggii <mark>[†]</mark>	Trailing Indigo Bush <mark>[<sup>†</sup>]</mark>	200
Daphne cneorum[†]	Rose Daphne[†]	200
Daphne odora[†]	Fragrant Daphne[†]	200
Delosperma alba[†]	White Trailing Ice Plant[/]	200
Delosperma cooperi[†]	Ice Plant <mark>[†]</mark>	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Delosperma nubigenum[†]	Hardy Ice Plant <mark>[<sup>†</sup>]</mark>	200
Delphinium spp. [†]	Larkspur; Blue Elf <mark>[<sup>†</sup>]</mark>	200
Descampsia caespitosa <mark>[†]</mark>	Tufted Hairgrass <mark>[<sup>†</sup>]</mark>	200
Deutzia gracilis 'Nikko' [†]	Dwarf Deutzia 'Nikko' <mark>[<sup>†</sup>]</mark>	200
Deutzia gracilis <mark>[†]</mark>	Slender Deutzia <mark>[†]</mark>	200
Dianthus deltoides[†]	Zing Maiden Pinks <mark>[<sup>†</sup>]</mark>	200
Dianthus gratianopolitanus[†]	Firewitch Cheddar Pink[ <sup>†</sup> ]	200
Dianthus gratianopolitanus[†]	Crimson treasure Cheddar Pink[†]	200
Dianthus gratianopolitanus[†]	Cheddar Pink[*]	200
Dianthus plumaris[†]	Cottage Pink[†]	200
Dietes (Moraea) iridioides[†]	African Iris[†]	200
Dietes vegeta[†]	Fortnight Lily[*]	200
Dodonaea viscosa[†]	Hopseed Bush[ <sup>†</sup> ]	200
Drosanthemum floribundum[†]	Trailing rosea iceplant[†]	200
Drosanthemum hispidum[†]	Ice Plant[*]	200
Dryopteris australis[†]	Dixie Wood Fern[†]	200
Dryopteris erythrosora[†]	Autumn Fern[†]	200
Dryopteris marginalis[†]	Marginal Wood Fern[†]	200
Dymondia margaretae[†]	Diamond Marguerite[†]	200
Dypsis lutescens[†]	Areca Palm <mark>[<sup>†</sup>]</mark>	200
Elaeagnus x ebbingei <mark>[†]</mark>	Elaeagnus <mark>[<sup>†</sup>]</mark>	200
Elaeagnus pungens[†]	Silverberry[ <sup>†</sup> ]	200
Elaeagnus pungens 'Fruitlandii' [†]	Silverberry 'Fruitland'[†]	200
Enkianthus campanulatus[†]	Red Veined Enkianthus[†]	200
Ensete ventricosum[†]	Absynnian Banana <mark>[†]</mark>	200
Equisetum scirpoides[†]	Dwarf Horsetail[ <sup>†</sup> ]	200
Erianthus ravennae <mark>[†]</mark>	Hardy Pampasgrass <mark>[<sup>†</sup>]</mark>	200
Erica cinerea	Purple Bell Heather	200
Erica x darleyensis 'Mediterranian Pink'	Heather 'Mediterranean Pink'	200
Erica vagans	Cornish Heather	200
Erigeron speciosus 'Darkest of All'[†]	Fleabane 'Darkest of All'[†]	200
Escalonia x exoniensis[†]	Escallonia <mark>[†]</mark>	200
Eucalyptus camaldulensis[†]	River Red Gum[ <sup>†</sup> ]	200
Eucalyptus cinerea[†]	Silver Dollar Eucalyptus[†]	200
Eucalyptus microtheca[†]	Coolibah <mark>[<sup>†</sup>]</mark>	200
Eucalyptus sideroxylon[†]	Red Ironbark Eucalyptus[ <sup>†</sup> ]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Eugenia myrtifolia 'Teenie Genie' [†]	Brush Cherry 'Teenie Genie'[†]	200
Eugenia myrtifolia <mark>[†]</mark>	Brush Cherry[†]	200
Euonymus kiatschovicus[†]	Mahattan Euonymus <mark>[†]</mark>	200
Euonymus fortunei[†]	Wintercreeper[ <sup>†</sup> ]	200
Euonymus fortunei 'Blondy'	Wintercreeper 'Blondy'	100
Euonymus fortunei 'Canadale Gold' [†]	Euonymus 'Canadale Gold'[/]	200
Euonymus fortunei 'Emerald'n Gold'[†]	Euonymus 'Emerald'n Gold'[†]	200
Euonymus fortunei 'Sunspot'[†]	Euonymus 'Sunspot'[†]	200
Euonymus forunei var. vegetus[†]	Bigleaf Wintercreeper[†]	200
Euonymus japonicus	Japanese Spindle Tree	200
Euonymus japonicus 'Chollipo'[†]	Euonymus 'Chollipo'[†]	200
Euonymus japonicus 'Gold Spot'	Euonymus 'Gold Spot'	200
Euonymus japonicus 'Moness'[†]	Silver Princess Euonymus[†]	200
Euonymus japonicus 'Silver King'[†]	Euonymus 'Silver King'[†]	200
Euonymus japonicus[†]	Variegated Euonymus <mark>[†]</mark>	200
Euonymus kiautschovicus[†]	Spreading Euonymus[†]	200
Euryops pectinatus[†]	Dwarf Euryops[*]	200
Eustoma grandiflorum[†]	Pink Lisianthus[ <sup>†</sup> ]	200
Evolvulus nuttallianus[†]	Blue Daze Evolvulus[ <sup>†</sup> ]	200
Fagus sylvatica[†]	European Beech <mark>[<sup>†</sup>]</mark>	200
x Fatshedera lizei <mark>[†]</mark>	Aralia Ivy <mark>[<sup>†</sup>]</mark>	200
Fatsia japonica <mark>[†]</mark>	Japanese Aralia <mark>[†]</mark>	200
Felicia amelloides[ <sup>†</sup> ]	Blue Marguerite[†]	200
Festuca ovina glauca <mark>[†]</mark>	Blue Fescue <mark>[<sup>†</sup>]</mark>	200
Ficus benjamina[†]	Ficus Tree[†]	200
Forsythia x intermedia	Border Forsythia	200
Forsythia x intermedia 'Spring Glory'	Forsythia 'Spring Glory'	200
Forsythia suspensa[†]	Weeping Forsythia[ <sup>†</sup> ]	200
Forsythia viridissima	Greenstem Forsythia	200
Fraxinus udhei <mark>[†]</mark>	Shamel Ash <mark>[<sup>†</sup>]</mark>	200
Fuchsia 'Santa Claus'[†]	Fuchsia 'Santa Claus'[†]	200
Gardenia jasminoides	Gardenia, Cape-Jasmine	100
Gardenia jasminoides 'Mystery'	Gardenia 'Mystery'	100
Gardenia jasminoides 'August Beauty'	Gardenia 'August Beauty'	100
Gardenia jasminoides 'Radicans'	Miniature Gardenia	100
Gaultheria procumbens[†]	Wintergreen[ <sup>†</sup> ]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Gaultheria shallon <mark>[†]</mark>	Salal/Lemon Leaf <mark>[<sup>†</sup>]</mark>	200
Gaura spp.[†]	Guara[†]	200
Gazania spp. [†]	Gazania <mark>[†]</mark>	200
Gelsemium sempervirens[†]	Carolina Jessamine[†]	200
Genista pilosa[†]	Woadwaxen[*]	200
Gentiana dahurica[†]	Gentian[ <sup>†</sup> ]	200
Geranium cinereum[†]	Cranesbill <sup>[†</sup> ]	200
Geranium cinereum 'Ballerina'[†]	Cranesbill 'Ballerina'[†]	200
Geranium sanguineum[†]	Bloody Cranesbill[†]	200
Geranium subcaulescens[†]	Black Eyed Magenta Cranesbill <sup>[†</sup> ]	200
Geum quellyon[†]	Geum[†]	200
Geum spp. [†]	Avens[ <sup>†</sup> ]	200
Ginkgo biloba <mark>[†]</mark>	Ginkgo[ <sup>†</sup> ]	200
Gleditsia triacanthos [†]	Honey Locust[ <sup>†</sup> ]	200
Gleditsia triacanthos f. inermis 'Shademaster'	Honeylocust 'Shademaster' <mark>[<sup>†</sup>]</mark>	200
Gypsophila paniculata[†]	Baby's Breath <mark>[<sup>†</sup>]</mark>	200
Gypsophila repens[†]	Creeping Baby's Breath[ <sup>†</sup> ]	200
Hakonechloa macra 'Aureola' [†]	Hakonegrass 'Aureola'[†]	200
Hamamelis virginiana[†]	Common Witch Hazel[†]	200
Hamelia patens[†]	Firebush[ <sup>†</sup> ]	200
Hardenbergia violacea[†]	Lilac Vine[ <sup>†</sup> ]	200
Hebe buxifolia[†]	Boxleaf Hebe <mark>[<sup>†</sup>]</mark>	200
Hedera canariensis[†]	Algerian Ivy <mark>[<sup>†</sup>]</mark>	200
Hedera helix[†]	English Ivy <mark>[<sup>†</sup>]</mark>	200
Helianthemum spp. [†]	Sunrose <mark>[†]</mark>	200
Helichrysum petiolare 'White Licorice'[f]	Helichrysum 'White Licorice'[†]	200
Heliotropium arborescens[†]	Common Heliotrope[†]	200
Hemerocallis spp. $[^{\dagger}]$	Daylily. [ <sup>†</sup> ]	100
Hemerocallis 'Aztec'[†]	Daylily 'Aztec Gold' <mark>[<sup>†</sup>]</mark>	100
Hemerocallis 'Stella de Oro'[†]	Daylily 'Stella de Oro' <mark>[<sup>†</sup>]</mark>	100
Hemerocallis 'Tender Love' [†]	Daylily 'Tender Love'[†]	100
Hesperaloe parvifolia[†]	Red Yucca <mark>[<sup>†</sup>]</mark>	200
Heteromeles arbutiflora[†]	Toyon[†]	200
Heuchera 'Bressingham' [†]	Coral Bells 'Bressingham' [†]	200
Heuchera micrantha[†]	Alumroot[†]	200
x Heucherella alba 'Bridget Bloom'[†]	Foamy Bells 'Bridget Bloom'[†]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
x Heucherella spp. [†]	Foamy Bells <mark>[†]</mark>	200
Hibiscus**	Rose-of-Sharon**	100
Hibiscus moscheutos 'Disco Belle White'	Mallow 'Disco Belle White'	100
Hibiscus rosa-sinensis**	Chinese Hibiscus**	100
Hibiscus rosa-sinensis 'Ross Estey'**	Hibiscus 'Ross Estey'**	100
Hibiscus syriacus 'Red Bird'**	Rose-of-Sharon 'Red Bird'**	100
Hibiscus syriacus 'Red Heart'**	Rose-of-Sharon 'Red Heart'**	100
Hibiscus syriacus 'Woodbridge'**	Rose-of-Sharon 'Woodbridge'**	100
Hosta x 'Fortunei'[†]	Hosta 'Fortunei'[†]	200
Hosta x 'Francee'[†]	Hosta 'Francee'[†]	200
Hosta x 'Goldstandard'[†]	Hosta 'Goldstandard'[ <sup>†</sup> ]	200
Hosta x 'Patriot'[†]	Hosta 'Patriot' <mark>[†]</mark>	200
Hosta lancifolia f. albomarginata[†]	Hosta 'Albomarginata'[†]	200
Hosta lancifolia[†]	Narrow Leafed Hosta[†]	200
Hosta plantaginea[†]	Fragrant Hosta <mark>[<sup>†</sup>]</mark>	200
Hosta sieboldiana <mark>[†]</mark>	Plantain Lilly <mark>[<sup>†</sup>]</mark>	200
Houttuynia cordata 'Chameleon'[†]	Variegated Chameleon Plant[ <sup>†</sup> ]	200
Hypericum spp. [†]	St. Johnswort[ <sup>†</sup> ]	200
Ilex x 'Nellie R. Stevens'	Holly 'Nellie R. Stevens'	200
Ilex aquafolium	English Holly	200
Ilex aquafolium 'Gold Coast'	English Holly 'Gold Coast'	200
Ilex x aquipernyi 'San Jose'	Holly 'San Jose'	200
Ilex x attenuate 'Savanna'	Holly 'Savannah'	200
Ilex cassine	Dahoon Holly	200
Ilex cornuta 'Burfordii'	Chinese Holly 'Burford'	200
Ilex cornuta 'Needlepoint'	Chinese Holly 'Needlepoint'	200
Ilex cornuta 'Dwarf Burford'	Chinese Holly 'Dwarf Burford'	200
llex cornuta**	Chinese Holly**	200
Ilex crenata	Japanese Holly	200
Ilex crenata 'Compacta'[†]	Japanese Holly 'Compacta'[†]	200
Ilex crenata 'Convexa'	Japanese Holly 'Convexa'	200
Ilex crenata 'Green Luster'	Japanese Holly 'Green Luster'	200
llex crenata 'Helleri'[†]	Japanese Holly 'Helleri'[†]	200
Ilex crenata 'Hetzii'	Japanese Holly' Hetzii'	200
Ilex crenata 'Steeds'	Japanese Holly 'Steeds'	200
Ilex crenata 'Stokes'	Japanese Holly 'Stokes'	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Ilex glabra	Inkberry	200
Ilex glabra 'Compacta'	Inkberry 'Compacta'	200
Ilex x meserveae 'Blue Boy'[†]	Meserve Holly 'Blue Boy'[*]	200
<i>llex</i> x <i>meserveae</i> 'Blue Girl'[†]	Meserve Holly 'Blue Girl'[ <sup>†</sup> ]	200
<i>llex</i> x <i>meserveae</i> 'Mesdob'[†]	Meserve Holly 'China Boy'[†]	200
llex x meserveae 'Mesog'[†]	Meserve Holly 'China Girl'[†]	200
Ilex x meserveae 'Ebony Magic'	Meserve Holly 'Ebony Magic'	200
llex opaca[†]	American Holly[ <sup>†</sup> ]	200
Ilex pernyi	Perny Holly	200
Ilex vomitoria	Yaupon Holly	200
Ilex vomitoria 'Nana'	Yaupon Holly 'Nana', Dwarf Yaupon Holly	200
Ilex vomitoria 'Pendula'	Yaupon Holly 'Pendula', Weeping Yaupon Holly	200
<i>llex</i> x 'Mary Nell'[ <sup>†</sup> ]	Holly 'Mary Nell'[†]	200
Illicium anisatum[†]	Japanese Star Anise <mark>[†]</mark>	200
Illicium floridanum[†]	Florida Anise Tree[†]	200
Impatiens walleriana 'Super Elfin Lipstick'[†]	Lipstick Impatiens[ <sup>†</sup> ]	200
Imperata cylindrica 'Rubra'[†]	Japanese Blood Grass[*]	200
Inula ensifolia <mark>[†]</mark>	Swordleaf Inula <sup>[†</sup> ]	200
Ipomoea acuminata 'Blue Dawn'[†]	Blue Dawn Morning Glory[†]	200
<i>Iris ensata</i> 'Jodelsong' <mark>[†]</mark>	Japanese Iris 'Jodlesong'[†]	200
Iris pumila <mark>[†]</mark>	Dwarf Iris[ <sup>†</sup> ]	200
<i>Iris sibirica</i> 'Cabernet'[ <sup>†</sup> ]	Siberian Iris 'Cabernet'[ <sup>†</sup> ]	200
Iris spp.** [†]	Iris species**[†]	200
Iris virginica <mark>[†]</mark>	Virginia Iris <mark>[<sup>†</sup>]</mark>	200
Itea virginica 'Henry's Garnet'[†]	Virginia Sweetspire 'Henry's Garnet'[†]	200
Ixora coccinea[†]	Scarlet Jungleflame[/]	200
Jasminum nudiflorum <mark>[†]</mark>	Winter Jasmine[ <sup>†</sup> ]	200
Jasminum nitidum <mark>[†]</mark>	Angelwing Jasmine[ <sup>†</sup> ]	200
Jasminum polyanthum[†]	Pink Jasmine <mark>[<sup>†</sup>]</mark>	200
Juglans spp.* [†]	Walnut*[ <sup>†</sup> ]	200
Juniperus chinensis[†]	Chinese Juniper[ <sup>†</sup> ]	200
Juniperus chinensis (x pfitzeriana) 'Aurea Improved'[†]	Juniper 'Gold Coast' <mark>[<sup>†</sup>]</mark>	200
Juniperus chinensis (x pfitzeriana) 'Old Gold'	Juniper 'Old Gold'	200
Juniperus chinensis (x pfitzeriana) 'Glauca'	Juniper 'Pfitzeriana Glauca'	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Juniperus chinensis (x pfitzeriana) 'Sea Green'	Juniper 'Sea Green'	200
Juniperus chinensis (x pfitzeriana) 'Torulosa'	Juniper 'Torulosa', Hollywood Juniper	200
Juniperus conferta[†]	Shore Juniper[†]	200
Juniperus conferta 'Emerald Sea'[t]	Shore Juniper 'Emerald Sea'[†]	200
Juniperus chinensis (davurica) 'Parsonii' [†]	Juniper 'Parsonii', Parson's Juniper[†]	200
Juniperus horizontalis	Creeping Juniper	200
Leading and the strength of the	(except 'Prince of Wales')	000
Juniperus horizontalis	Andorra Juniper	200
Juniperus horizontalis 'Plumosa Compacta'	Compact Andorra Juniper	200
Juniperus horizontalis 'Bar Harbor'	Creeping Juniper 'Bar Harbor'	200
Juniperus horizontalis 'Blue Chip'	Creeping Juniper 'Blue Chip'	200
Juniperus horizontalis 'Wiltonii'	Creeping Juniper 'Blue Rug'	200
Juniperus horizontalis 'Huntington Blue'	Creeping Juniper 'Huntington Blue'	200
Juniperus procumbens	Japanese Garden Juniper	200
Juniperus sabina	Savin Juniper	200
Juniperus sabina 'Broadmoor'	Savin Juniper 'Broadmoor'	200
Juniperus sabina 'Hicksii'	Savin Juniper 'Hicksii	200
Juniperus scopulorum 'Emerald Green'	Rocky Mountain Juniper 'Emerald Green'	200
Juniperus scopulorum 'Wichita Blue'	Rocky Mountain Juniper 'Wichita Blue'	200
Juniperus squamata	Singleseed Juniper	100
Juniperus squamata 'Blue Carpet'[†]	Juniper 'Blue Carpet' <mark>[<sup>†</sup>]</mark>	200
Juniperus squamata 'Blue Star'	Juniper 'Blue Star'	100
Juniperus virginiana	Eastern Red Cedar	200
Justica brandegeana <mark>[†]</mark>	Shrimp Plant <mark>[<sup>†</sup>]</mark>	200
Kalmia latifolia[†]	Mountain Laurel[†]	200
Kniphofia uvaria 'Flamenco'[†]	Red Hot Poker 'Flamenco'[†]	200
Lagerstromia indica 'Whit VI'[†]	Crape Myrtle 'Burgundy Cotton'[†]	200
Lagerstromia indica x fauriei 'Tuscarora' [†]	Crape Myrtle 'Tuscarora'[†]	200
Lagerstromia indica and hybrids[†]	Crape Myrtle[ <sup>†</sup> ]	200
Lampranthus spectabilis[†]	Trailing iceplant[ <sup>†</sup> ]	200
Lantana montevidensis[†]	Weeping Lantana[†]	200
Lavandula angustifolia 'Munstead'[†]	Lavender 'Munstead'[†]	100
Leontopodium alpinum[†]	Edelweiss[†]	200
Leptospermum scoparium[†]	New Zealand Tea Tree[†]	200
Leptospermum scoparium 'Ruby Glow'[†]	New Zealand Tea Tree 'Ruby Glow'[†]	200
Leucophyllum frutescens[†]	Texas Sage[†]	200
Leucophyllum laevigatum[†]	Chihuahan Sage[†]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Leucothoe axillaris[†]	Coast Doghobble <sup>[†</sup> ]	200
Leucothoe fontanesiana[†]	Drooping Leucothoe[†]	200
Liatris spicata 'Floristan Violet' [†]	Gay Feather 'Floristan Violet'[†]	200
Ligustrum amurense	Amur Privet	200
Ligustrum japonicum	Japanese Privet	200
Ligustrum japonicum 'Howard'[†]	Howard's Privet[ <sup>†</sup> ]	200
Ligustrum japonicum 'Texanum'[†]	Wax Leaf Privet[†]	200
Ligustrum japonicum 'Variegatum' [†]	Japanese Privet 'Variegatum'[†]	200
Ligustrum lucidum	Glossy Privet	200
Ligustrum ovalifolium	California Privet	200
Ligustrum sinense	Chinese Privet	200
Ligustrum sinense 'Variegatum'[†]	Chinese Privet 'Variegatum'[†]	200
Ligustrum x vicaryi	Golden Privet	100
Ligustrum vulgare 'Cheyenne'	Common Privet 'Cheyenne'	200
Ligustrum vulgare 'Lodense'	Common Privet 'Lodense'	200
Lilium spp. [†]	Lily <mark>[†]</mark>	200
Limonium perezii[†]	Sea Lavender[ <sup>†</sup> ]	200
Liquidambar styraciflua[†]	American Sweetgum[†]	200
Liriope gigantea[†]	Giant Lily Turf[/]	200
Liriope muscari 'Big Blue' [†]	Liriope 'Big Blue'[†]	200
Liriope muscari 'Lilac Beauty'[†]	Liriope 'Lilac Beauty'[†]	200
Liriope muscari 'Majestic'[†]	Liriope 'Majestic'[†]	200
Liriope muscari 'Monroe's White'[†]	Liriope 'Monroe's White'[†]	200
Liriope muscari 'Silvery Sunproof'[†]	Liriope 'Silvery Sunproof'[†]	200
Liriope muscari 'Variegata'[†]	Liriope 'Variegata'[†]	200
Liriope spicata[†]	Creeping Liriope [†]	200
Liriope spicata 'Silver Dragon'[†]	Liriope 'Silver Dragon'[†]	200
Livistona chinensis[†]	Chinese Fan Palm[†]	200
Lobelia cardinalis[†]	Cardinal Flower, Indian Pink[†]	200
Lonicera fragrantissima[†]	Winter Honeysuckle[†]	200
Lonicera japonica <mark>[†]</mark>	Japanese Honeysuckle[†]	200
Lonicera periclymenum[†]	Woodbine[†]	200
Lonicera periclymenum 'Serotina' [†]	Woodbine 'Serotina'[†]	200
Lonicera sempervirens[†]	Trumpet Honeysuckle[†]	200
Lonicera tatarica[†]	Tatarian Honeysuckle[†]	200
Loropetalum chinense 'Burgundy'[†]	Loropetalum 'Burgundy'[f]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Loropetalum chinense 'Monraz'	Loropetalum 'Razzleberri'	200
Loropetalum chinense 'Ruby'[†]	Loropetalum 'Ruby' <mark>[<sup>†</sup>]</mark>	200
Loropetalum chinense 'Sizzlin' Pink'	Loropetalum 'Sizzlin' Pink'	200
Lycianthes (Solanum) rantonnetii[†]	Paraguay Nightshade[ <sup>†</sup> ]	200
Lysimacia nummularia <mark>[†]</mark>	Moneywort[†]	200
Lysimacia punctata[†]	Dotted Loosestrife[†]	200
Lythrum virgatum 'Morden Pink'[†]	Loosestrife; 'Morden Pink'[†]	200
Magnolia grandiflora <mark>[†]</mark>	Southern Magnolia <mark>[<sup>†</sup>]</mark>	200
Magnolia x soulangeana <mark>[†]</mark>	Saucer Magnolia[†]	200
Magnolia spp.** [†]	Magnolia species**[/]	200
Magnolia stellata 'Royal Star'[†]	Magnolia 'Royal Star'[†]	200
Mahonia aquafolium 'Compacta'[†]	Compact Oregon Grapeholly[ <sup>†</sup> ]	200
Mahonia bealei <mark>[†]</mark>	Leather Leaf Mahonia <mark>[<sup>†</sup>]</mark>	200
Mahonia repens[†]	Creeping Mahonia[†]	200
Maleophora luteola[†]	Rocky Point Ice Plant[†]	200
Malus sargentii[†]	Sargent Crabapple[ <sup>†</sup> ]	200
Malus spp.*[†]	Non-bearing Crabapple*[†]	200
Mandevilla splendens 'Red Riding Hood'[†]	Mandevilla 'Red Riding Hood'[†]	200
Matteuccia struthiopteris[†]	Ostrich Fern[†]	200
Matthiola incana[†]	Stock[ <sup>†</sup> ]	200
Michelia figo[†]	Banana Shrub <mark>[†]</mark>	200
Miscanthus sinensis[†]	Maiden Grass <mark>[<sup>†</sup>]</mark>	200
Miscanthus sinensis 'Silberfeder' [†]	Maidengrass 'Silberfeder'[†]	200
Miscanthus sinensis Yaku Jima'**[†]	Maidengrass 'Yaku Jima'** <mark>[<sup>†</sup>]</mark>	200
Morella (Myrica) cerifera[†]	Southern Waxmyrtle <mark>[†]</mark>	200
Morella (Myrica) pensylvanica[†]	Northern Bayberry <mark>[†]</mark>	200
Morus alba*[†]	White Mulberry*[ <sup>†</sup> ]	200
Musa acuminata*[†]	Banana* <mark>[<sup>†</sup>]</mark>	200
Myoporum parvifolium 'Putah Creek'[†]	Myoporum 'Putah Creek'[†]	200
Nandina domestica 'Compacta' [†]	Nandina 'Compact Dwarf' [†]	200
Nandina domestica 'Harbour Dwarf'[†]	Nandina 'Harbour Dwarf' <mark>[†]</mark>	200
Nandina domestica[†]	Nandina <mark>[<sup>†</sup>]</mark>	200
Nandina domestica 'Atropurpurea Nana' [†]	Nandina 'Dwarf Purple' <mark>[<sup>†</sup>]</mark>	200
Nandina domestica 'Wood's Dwarf' [†]	Nandina 'Woods Dwarf'[†]	200
Narcissus spp.** [†]	Narcissus species**[†]	200
<i>Nerium oleander</i> 'Hardy Red' <mark>[†]</mark>	Oleander 'Hardy Red' <mark>[†]</mark>	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Nerium oleander[†]	Oleander[ <sup>†</sup> ]	200
Nipponanthemum nipponicum[†]	Montauk Daisy or Nippon Daisy[†]	200
Oenothera macrocarpa[†]	Ozark Sundrops, Missouri Evening Primrose[f]	200
Oenothera speciosa 'Siskiyou'	Evening Primrose 'Siskiyou'	200
Olea europaea*[†]	Olive*[†]	200
Onoclea sensibilis[†]	Sensitive Fern[ <sup>†</sup> ]	200
Ophiopogon japonicus 'Nana'**	Dwarf Mondo Grass**	200
Ophiopogon japonicus**	Mondo Grass**	200
Origanum libanoticum[†]	Hopflower Oregano[†]	200
Osmanthus x fortunei[†]	Fortune's Osmanthus[†]	200
Osmanthus fragrans	Sweet Olive Osmanthus	200
Osmanthus heterophyllus	Holly Osmanthus	200
Osmanthus heterophyllus 'Gulftide'[†]	Holly Osmanthus 'Gulftide'[†]	200
Osmunda cinnamomea[†]	Cinnamon Fern[†]	200
Osmunda regalis <mark>[†]</mark>	Royal Fern[†]	200
Osteospermum fruticosum[†]	Trailing African Daisy[†]	200
Oxydendrum arboreum[†]	Sourwood[ <sup>†</sup> ]	200
Pachysandra terminalis[†]	Japanese Spurge[†]	200
Pachysandra terminalis 'Green Sheen'[t]	Japanese Spurge 'Green Sheen'[*]	200
Paeonia suffruticosa[†]	Tree Peony[ <sup>†</sup> ]	200
Parthenocissus quinquefolia[†]	Virginia Creeper <mark>[†]</mark>	200
Pelargonium x hortorum[†]	Zonal Geranium[/]	200
Pelargonium peltatum[†]	Ivy Geranium[†]	200
Pennisetum alopecuroides[†]	Fountain Grass[ <sup>†</sup> ]	200
Pennisetum setaceum[†]	Crimson Fountaingrass[†]	200
Pennisetum setaceum 'Rubrum'[†]	Purple Fountain Grass[†]	200
Penstemon x gloxinioides 'Apple Blossom'[†]	Penstemon 'Apple Blossom'[†]	200
Pentas lanceolata[†]	Star Clusters[†]	200
Perovskia atriplicifolia[†]	Russian Sage <mark>[<sup>†</sup>]</mark>	200
Persea americana*[†]	Avocado*[†]	200
Petunia hybrids[†]	Petunias[ <sup>†</sup> ]	200
Phalaris arundinacea[†]	Ribbon Grass[*]	200
Phlox subulata	Moss Pink	200
Phoenix roebelenii <mark>[†]</mark>	Pygmy Date Palm[/]	200
Phormium tenax 'Jack Spratt'	New Zealand Flax 'Jack Spratt'	200
Photinia x fraseri[t]	Red Tip Photinia[†]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Physocarpus opulifolius 'Nanus'[t]	Dwarf Ninebark[/	200
Physostegia virginiana 'Vivid'[†]	False Dragonhead 'Vivid'[†]	200
Picea abies 'Pendula'	Weeping Norway Spruce	200
Picea abies 'Regens'	Spreading Norway Spruce	200
Picea abies	Norway Spruce	200
Picea glauca	White Spruce	200
Picea glauca 'Conica'	Dwarf Alberta Spruce	200
Picea pungens f. glauca	Colorado Blue Spruce	200
Picea pungens 'Hoopsii'	Hoop's Blue Spruce	200
Picea pungens 'Koster'	Koster's Blue Spruce	200
Picea pungens <mark>[†]</mark>	Colorado Spruce[†]	200
Pieris 'Florest Flame' [†]	Pieris 'Forest Flame'[†]	200
Pieris japonica <mark>[†]</mark>	Pieris, Japanese Andromeda <sup>[†</sup> ]	200
Pieris japonica 'Mountain Fire'[†]	Pieris 'Mountain Fire'[†]	200
Pieris japonica 'Snowdrift'[†]	Pieris 'Snowdrift'[†]	200
Pieris japonica 'Temple Bells'[†]	Pieris 'Temple Bells'[†]	200
Pieris japonica 'Valley Rose'[†]	Pieris 'Valley Rose'[*]	200
Pieris japonica 'Valley Valentine'[†]	Pieris 'Valley Valentine' [†]	200
Pinus aristata[†]	Bristlecone Pine[†]	200
Pinus brutia[†]	Calabrian Pine[/]	200
Pinus canariensis[†]	Canary Island Pine[†]	200
Pinus contorta[†]	Shore Pine, Lodgepole Pine[†]	200
Pinus eldarica[†]	Eldarica Pine[†]	200
Pinus elliottii <mark>[†]</mark>	Slash Pine <mark>[†]</mark>	200
Pinus halapensis[†]	Aleppo Pine[†]	200
Pinus heldreichii (leucodermis) [†]	Bosnian Pine[ <sup>†</sup> ]	200
Pinus mugo[†]	Mugo Pine[†]	200
Pinus nigra <mark>[†]</mark>	Austrian Black Pine[ <sup>†</sup> ]	200
Pinus palustris <mark>[†]</mark>	Longleaf Pine[†]	200
Pinus radiata[†]	Monterey Pine[ <sup>†</sup> ]	200
Pinus strobus[†]	Eastern White Pine[†]	200
Pinus sylvestris[†]	Scotch Pine[†]	200
Pinus sylvestris f. fastigiata[†]	Columnar Scotch Pine[†]	200
Pinus taeda	Loblolly Pine	200
Pinus thunbergii[†]	Japanese Black Pine[†]	200
Pinus virginiana <mark>[†]</mark>	Virginia Pine <mark>[†]</mark>	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Pistacia spp.* <mark>[†]</mark>	Pistachio*[ <sup>†</sup> ]	200
Pittosporum rhombifolium	Queensland Pittosporum	200
Pittosporum tenufolium 'Golf Ball'	Pittosporum Kohuhu 'Golf Ball'	200
Pittosporum tobira	Japanese Pittosporum	200
Pittosporum tobira 'Wheeleri'	Pittosporum 'Wheelers Dwarf'	200
Platanus occidentalis[†]	American Sycamore <mark>[†]</mark>	200
Platanus racemosa[†]	California Sycamore[†]	200
Plumbago auriculata[†]	Cape Plumbago[ <sup>†</sup> ]	200
Podocarpus macrophyllus[†]	Buddist Pine, Yew Podocarpus[†]	200
Polygala fruticosa[†]	Sweet Pea Shrub[†]	200
Polystichum acrostichoides[†]	Christmas Fern[†]	200
Polystichum polyblepharum[†]	Tassel Fern <mark>[<sup>†</sup>]</mark>	200
Populus deltoides <mark>[†]</mark>	Eastern Cottonwood[ <sup>†</sup> ]	200
Potentilla fragiformis	Strawberry Cinquefoil	200
Potentilla fruticosa	Shrubby Cinquefoil	200
Potentilla fruticosa 'Floppy Disc'	Cinquefoil 'Floppy Disc'	200
Potentilla fruticosa 'Gold Drop'	Cinquefoil 'Gold Drop'	200
Potentilla fruticosa 'Goldfinger'	Cinquefoil 'Goldfinger'	200
Potentilla fruticosa 'Red Ace'	Cinquefoil 'Red Ace'	200
Potentilla fruticosa 'Sunset'	Cinquefoil 'Sunset'	200
Potentilla fruticosa 'Tangerine'	Cinquefoil 'Tangerine'	200
Potentilla neumanniana	Spring Cinquefoil	200
Prosopis chilensis[†]	Chilean Mesquite[†]	200
Prunus laurocerasus	English Laurel	200
Prunus laurocerasus 'Otto Luyken'	English Laurel 'Otto Luyken'	200
Prunus caroliniana	Carolina Cherry Laurel	200
Prunus caroliniana 'Bright'N Tight'[†]	Carolina Cherry Laurel 'Bright 'N Tight' [†]	200
Prunus glandulosa	Dwarf Flowering Almond	200
Prunus spp.* <mark>[†]</mark>	Almond, Apricot, Nectarine, Peach, Plum and Prune*[†]	200
Prunus x yedoensis	Yoshino Cherry	200
Pseudotsuga menziesii**[†]	Douglas Fir** <mark>[*]</mark>	200
Psidium cattleianum[†]	Strawberry Guava[ <sup>†</sup> ]	200
Pyracantha 'Monon'[†]	Pyracantha 'Yukon Belle'[†]	200
Pyracantha 'Monelf [†]	Pyracantha 'Red Elf ' [†]	200
Pyracantha 'Rutgers'[†]	Pyracantha 'Rutgers Hybrid'[†]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Pyracantha coccinea[†]	Scarlet Firethorn[ <sup>†</sup> ]	200
Pyracantha coccinea 'Lalandei'[†]	Scarlet Firethorn 'Lalandei'[†]	200
Pyracantha fortuneana[†]	Pyracantha, Chinese Firethorn[†]	200
Pyracantha koidzumii <mark>[†]</mark>	Pyracantha, Formosa Firethorn[†]	200
Pyracantha koidzumii 'Santa Cruz' [†]	Pyracantha 'Santa Cruz'[ <sup>†</sup> ]	200
Pyracantha koidzumii 'Victory' [†]	Pyracantha 'Victory'[ <sup>†</sup> ]	200
Pyrus calleryana 'Bradford' [†]	Pears 'Bradford'[*]	200
Pyrus spp. [†]	Pear spp. [†]	200
Quercus ilicifolia	Bear Oak	200
Quercus palustris	Pin Oak	200
Quercus phellos	Willow Oak	200
Quercus rubra	Red Oak	200
Quercus shumardii <mark>[†]</mark>	Shumard Oak <mark>[<sup>†</sup>]</mark>	200
Quercus virginiana[†]	Southern Live Oak <mark>[<sup>†</sup>]</mark>	200
Ratbida columnifera[†]	Mexican Hat <mark>[<sup>†</sup>]</mark>	200
Ravenea rivularis[†]	Majesty Palm <mark>[<sup>†</sup>]</mark>	200
Rhaphiolepis indica[†]	Indian Hawthorn <mark>[†]</mark>	200
Rhaphiolepis indica 'Ballerina'[1]	Indian Hawthorn 'Ballerina'[†]	200
Rhaphiolepis indica 'Charisma'[†]	Indian Hawthorn 'Charisma'[†]	200
Rhaphiolepis indica 'Enchantress'[f]	Indian Hawthorn 'Enchantress' <mark>[/]</mark>	200
Rhaphiolepis indica 'Springtime'[†]	Indian Hawthorn 'Springtime'[ <sup>†</sup> ]	200
Rhaphiolepis umbellata[†]	Yedda Hawthorne[ <sup>†</sup> ]	200
Rhododendron x 'Fashion'	Azalea 'Fashion'	200
Rhododendron x 'Wakaebisu'	Azalea 'Wakaebisu'	200
Rhododendron x 'George Taber'	Azalea 'George Taber'	200
Rhododendron x 'Delaware Valley White'	Azalea 'Delaware Valley White'	200
Rhododendron x 'Girard's Roberta'	Azalea 'Girard'sRoberta'	200
Rhododendron x 'Girard's Crimson'	Azalea 'Girard's Crimson'	200
Rhododendron x 'Golden Flare'	Golden Flare Azalea	200
Rhododendron x 'Hellmut Vogel'	Azalea 'Hellmut Vogel'	200
Rhododendron x 'Hershey's Red'	Azalea 'Hershey's Red'	200
Rhododendron x 'Girard's Hot Shot'	Azalea 'Girard's Hot Shot'	200
Rhododendron x 'Inga'	Azalea 'Inga'	200
Rhododendron x 'Irene Koster'	Azalea 'Irene Koster'	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Rhododendron indicum 'President Claey'	Azalea 'President Claey'	200
Rhododendron x 'Tradition'	Azalea 'Tradition'	200
Rhododendron forrestii x griersonian 'Elizabeth'	Rhododendron 'Elizabeth'	200
Rhododendron calendulaceum	Flame Azalea	200
Rhododendron x 'Klondyke'	Azalea 'Klondyke'	200
Rhododendron catawbiense[†]	Catawba Rhododendron[f]	200
Rhododendron catawbiense 'Lord Roberts'[†]	Catawba Rhododendron 'Lord Roberts'[†]	200
Rhododendron x 'Rocket'[†]	Catawba Rhododendron 'Rocket'[†]	200
Rhododendron x 'Cunningham's White'[†]	Rhododendron 'Cunningham's White'[†]	200
Rhododendron x 'Cannon's Double'[†]	Azalea 'Cannon's Double'[†]	200
Rhododendron x 'Golden Flare'[†]	Azalea 'Golden Flare'[ <sup>†</sup> ]	200
Rhododendron x 'Ramapo'	Rhododendron 'Ramapo'	200
Rhododendron x 'Gomer Waterer'[†]	Rhododendron 'Gomer Waterer'[ <sup>†</sup> ]	200
Rhododendron x 'Jean Marie de Montague'[†]	Rhododendron 'Jean Marie de Montague' <mark>[<sup>†</sup>]</mark>	200
Rhododendron x 'America'[†]	Rhododendron 'America' [†]	200
Rhododendron x 'Nova Zembla'[†]	Rhododendron 'Nova Zembla'[†]	200
Rhododendron x 'Scintillation'[†]	Rhododendron 'Scintillation'[†]	200
Rhododendron x 'Carror'[t]	Azalea 'Carror'[†]	200
Rhododendron impeditum[†]	Dwarf Purple Rhododendron[ <sup>†</sup> ]	200
Rhododendron indica[†]	Formosa Azalea <mark>[<sup>†</sup>]</mark>	200
Rhododendron indica[†]	Waucabusa Azalea <mark>[†]</mark>	200
Rhododendron x kaempferi 'Blue Danube'	Azalea 'Blue Danube'	200
Rhododendron kerume[†]	Coral Bells Azalea[†]	200
Rhododendron kerume[†]	Hino Crimson Azalea[†]	200
Rhododendron kerume[†]	Hino Pink Azalea[†]	200
Rhododendron kerume[†]	Mildred Azalea <mark>[<sup>†</sup>]</mark>	200
Rhododendron kerume[†]	Snow Azalea[†]	200
Rhododendron maximum[†]	Great Laurel, Rosebay Rhododendron[†]	200
Rhododendron mucronulatum	Korean Rhododendron	200
Rhododendron obtusum	Hino Crimson Azalea	200
Rhododendron x ponticum 'Chionoides'	Rhododendron 'Chioniodes'	200
Rhododendron ponticum[†]	Daphinoides Rhododendron[†]	200
Rhododendron x racemosum 'Scarlet Wonder'	Rhododendron 'Scarlet Wonder'	200
Rhododendron racemosum 'Trilby'	Rhododendron 'Trilby'	200
Rhododendron racemosum[†]	Unique Rhododendron[f]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Rhododendron racemosum[†]	Vulcan Rhododendron[†]	200
Rhododendron satuski[†]	Gumpo Pink Azalea <mark>[†]</mark>	200
Rhododendron satuski <mark>[†]</mark>	Gumpo White Azalea[†]	200
Rhododendron satuski[†]	Higasa Azalea <mark>[†]</mark>	200
Rhododendron satuski[†]	Reijn Azalea <mark>[†]</mark>	200
Rhododendron schlippenbachii[†]	Royal Azalea[†]	200
Rhododendron spp. [†]	Rhododendrons, Azaleas (except Carolina and roseum elegans variety rhododentron) [†]	200
Rhododendron x obtusum[†]	Kurume Azalea <mark>[†]</mark>	200
Rhus lancea[†]	African Sumac <mark>[<sup>†</sup>]</mark>	200
Rhus typhina <mark>[†]</mark>	Staghorn Sumac[ <sup>†</sup> ]	200
Rosa banksiae 'Lutea'	Lady Banks' Rose	200
Rosa rugosa <mark>[†]</mark>	Rugosa Rose <mark>[†]</mark>	200
Rosa x 'Radrazz' [†]	Knock Out Rose[†]	200
Rosa x Radtkopink'[†]	Knock Out Double Pink Rose[†]	200
Rosa x 'Horcoherent'[†]	Rose 'Oso Easy Peachy Cream'[ <sup>†</sup> ]	200
Rosmarinus officinalis*[†]	Rosemary*[ <sup>†</sup> ]	200
Rudbeckia fulgida 'Early Bird Gold'[†]	Black-Eyed Susan 'Early Bird Gold'[†]	200
Rudbeckia fulgida <mark>[†]</mark>	Blackeyed Susan <mark>[/]</mark>	200
Rudbeckia fulgida 'Goldsturm'[†]	Black-Eyed Susan 'Goldsturm'[†]	200
Rumohra adiantiformis[†]	Leatherleaf Fern[†]	200
Ruscus hypophyllum[†]	Spineless Butchers Broom[†]	200
Salix babylonica[†]	Babylon Weeping Willow[†]	200
Salix matsudana 'Tortuosa'[†]	Corkscrew Willow[ <sup>†</sup> ]	200
Salvia daghestanica 'Platinum'[†]	Silver-leaf Sage 'Platinum'[ <sup>†</sup> ]	200
Salvia grahamii <mark>[†]</mark>	Graham's Sage <mark>[<sup>†</sup>]</mark>	200
Santolina rosmarinifolia (virens) [†]	Green Lavender Cotton[ <sup>†</sup> ]	200
Sasa pygmaea <mark>[†]</mark>	Dwarf Bamboo <mark>[<sup>†</sup>]</mark>	200
Saxifraga spp. [†]	Saxifrage [†]	200
Scabiosa spp. [†]	Pincushion Flower[†]	200
Scutellaria resinosa[†]	Sticky Skullcap[†]	200
Sedum pachyclados <mark>[†]</mark>	Grey Stonecrop[ <sup>†</sup> ]	200
Sedum spurium 'John Creech'[7]	Sedum 'John Creech'[*]	200
Senecio cineraria[†]	Dusty Miller[†]	200
Sequoia sempervirens[†]	Coast Redwood[ <sup>†</sup> ]	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Sequoiadendron giganteum[†]	Giant Sequoia[†]	200
Skimmia japonica <mark>[†]</mark>	Japanese Skimmia <mark>[†]</mark>	200
Skimmia reevesiana <mark>[†]</mark>	Reeves Skimmia <mark>[<sup>†</sup>]</mark>	200
Spiraea x bumalda 'Anthony Waterer'[†]	Spiraea 'Anthony Waterer'[ <sup>†</sup> ]	200
Spiraea x cinerea 'Grefsheim'[†]	First Snow Spiraea[ <sup>†</sup> ]	200
Spiraea japonica 'Dolchica' [†]	Spiraea 'Dolchia' <mark>[<sup>†</sup>]</mark>	200
Spiraea japonica var. alpina[†]	Alpine Japanese Spiraea[†]	200
Spiraea japonica 'Magic Carpet'	Spiraea 'Magic Carpet'	200
Spiraea japonica 'Neon Flash'	Spiraea 'Neon Flash'	200
Spiraea japonica 'Shirobana'	Spiraea 'Shirobana'	200
Spiraea x vanhouttei	Vanhoutte Spirea	200
Streptosolen jamesonii[†]	Marmalade Bush <mark>[<sup>†</sup>]</mark>	200
Swietenia mahogani <mark>[†]</mark>	Mahogany <mark>[<sup>†</sup>]</mark>	200
Syagrus romanzoffiana[†]	Queen Palm <mark>[<sup>†</sup>]</mark>	200
Symphyotrichum (Aster) 'Persian Rose'[†]	Dwarf Aster 'Persian Rose'[†]	100
Symphyotrichum (Aster) novae-angliae[†]	New England Aster[†]	100
Symphyotrichum (Aster) novae-angliae 'Purple Dome'[†]	Aster 'Purple Dome'[†]	100
Symphyotrichum (Aster) novi-belgii[†]	New York Aster[†]	100
Symphyotrichum (Aster) novi-belgii 'Bonny Blue'[f]	Aster 'Bonny Blue'[*]	100
Syringa x chinensis[†]	Chinese Lilac <mark>[<sup>†</sup>]</mark>	200
Syringa vulgaris[†]	Common Lilac <mark>[<sup>†</sup>]</mark>	200
Syzygium paniculatum[†]	Australian Brushcherry[ <sup>†</sup> ]	200
Tabebuia caraiba <mark>[†]</mark>	Yellow Tabebuia <mark>[<sup>†</sup>]</mark>	200
Tagetes patula 'Little Hero'[†]	Marigold 'Little Hero' <mark>[<sup>†</sup>]</mark>	200
Taxus cuspidata[†]	Japanese Yew <mark>[<sup>†</sup>]</mark>	200
Taxus x media <mark>[†]</mark>	Yew <mark>[<sup>†</sup>]</mark>	200
Tecomaria capensis[†]	Cape Honeysuckle <mark>[<sup>†</sup>]</mark>	200
Ternstroemia gymnanthera[†]	Japanese Ternstroemia[ <sup>†</sup> ]	200
Tetraneuris (Hymenoxys) acaulis[†]	Butte Marigold, Angelita Daisy[ <sup>†</sup> ]	200
Teucrium fruticans	Bush Germander	200
Teucrium spp. [†]	Germander <mark>[<sup>†</sup>]</mark>	200
Thalictrum delavayi (dipterocarpum) [†]	Chinese Meadow Rue[†]	200
Thevetia nerifolia[†]	Yellow Oleander[ <sup>†</sup> ]	200
Thuja occidentalis	American Arborvitae	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)
Thuja occidentalis 'Smaragd'	Arborvitae 'Emerald'	200
Thuja occidentalis 'Globosa'	Arborvitae 'Globe'	200
Thuja occidentalis 'Little Giant'	Arborvitae 'Little Giant'	200
Thuja occidentalis 'Nigra'[†]	Dark American Arborvitae[†]	200
Thuja occidentalis 'Dark Green' [†]	Arborvatae 'Dark Green'[ <sup>†</sup> ]	200
Thuja occidentalis 'Pyramidalis'	Arborvitae 'Pyramidal'	200
Thuja occidentalis 'Rheingold'	Arborvitae 'Rheingold'	200
Thuja occidentalis 'Techny'	Arborvitae 'Techny'	200
Thuja occidentalis 'Woodwardii'	Woodward's Arborvitae	200
Thuja orientalis 'Aurea Nana'[†]	Arborvitae 'Dwarf Golden'[†]	200
Tibouchina urvilleana[†]	Princess Flower[†]	200
Trachelospermum asiaticum	Asian Star Jasmine	200
Trachycarpus fortunei[†]	Windmill Palm <mark>[<sup>†</sup>]</mark>	200
Tsuga canadensis[†]	Canada Hemlock, Eastern Hemlock[†]	200
Tulbaghia violacea[†]	Society Garlic[ <sup>†</sup> ]	200
Tulipa spp. [†]	Tulip[†]	200
Ulmus parvifolia <mark>[†]</mark>	Chinese Elm[†]	200
Verbena rigida[†]	Veined Verbena[†]	200
Veronica spp. [†]	Veronica, Speedwell <mark>[<sup>†</sup>]</mark>	200
Viburnum x bodnantense 'Pink Dawn' [†]	'Pink Dawn' Viburnum[†]	200
Viburnum carlesii	Koreanspice Viburnum	200
Viburnum davidii	David Viburnum	200
Viburnum japonicum	Japanese Viburnum	200
Viburnum x juddii <mark>[†]</mark>	Judd Viburnum[†]	200
Viburnum lantana	Wayfaring Tree Viburnum	200
Viburnum odoratissimum	Sweet Viburnum	200
Viburnum opulus 'Roseum' <mark>[†]</mark>	European Snowball Viburnum[/]	200
Viburnum opulus	European Cranberrybush Viburnum	100
Viburnum plicatum	Snowball Viburnum	200
Viburnum plicatum f. tomentosum	Doublefile Viburnum	200
Viburnum x pragense	Prague Viburnum	200
Viburnum setigerum	Tea Viburnum	200
Viburnum suspensum[†]	Sandankwa Viburnum <mark>[<sup>†</sup>]</mark>	200
Viburnum tinus	Laurustinus	200
Viburnum tinus 'Spring Bouquet'	Laurustinus 'Spring Bouquet'	200
Viburnum tinus sp. rigidum	Canary Island Viburnum	200

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Scientific Name	Common Name	Max. Rate/ Application (lbs/acre)	
Viburnum trilobum	American Cranberrybush Viburnum	200	
Viburnum wrightii	Wright's Viburnum	200	
Vinca major[†]	Bigleaf Periwinkle[ <sup>†</sup> ]	200	
Vinca minor[†]	Dwarf Periwinkle[ <sup>†</sup> ]	200	
Vitis spp.*[†]	Grape*[ <sup>†</sup> ]	200	
Washingtonia robusta[†]	Mexican Fan Palm <mark>[†]</mark>	200	
Washingtonia filifera[†]	California Fan Palm <mark>[<sup>†</sup>]</mark>	200	
Weigela florida[†]	Old Fashioned Weigela[†]	200	
Weigelia florida 'Bristol Ruby'[†]	Weigelia 'Bristol Ruby'[†]	200	
Weigelia florida 'Java Red'[†]	'Java Red' Weigelia[†]	200	
Weigelia florida 'Minuet'[†]	Weigelia 'Minuet'[ <sup>†</sup> ]	100	
Xylosma congestum <mark>[†]</mark>	Shiny Xylosma <mark>[<sup>†</sup>]</mark>	200	
Yucca aloifolia[†]	Spanish Bayonet[†]	200	
Yucca filamentosa[†]	Adam's Needle Yucca[†]	200	
Zamia furfuracea[†]	Cardboard Palm (Cycad)[†]	200	

## [† Not for use in California.]

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<sup>\*</sup>Do not use on food producing trees, vines, or plants.

<sup>\*\*</sup>Not for use on container grown plants.

Table 9. Do Not Use This Product for Weed Control in the Following Ornamental Plant Species

Scientific Name	Common Name
Ajuga spp.	Bugleweed or Ajuga
Brassica spp.	Mustard
Digitalis purpurea 'Dalmatian Purple'	Common Foxglove 'Dalmatian Purple'
Euonymus alatus 'Compacta'	Dwarf Burning Bush
Euphorbia spp.	Spurge
Iberis spp.	Candytuft
Juniperus horizontalis 'Prince of Wales'	Prince of Wales Juniper
Melaleuca quinquenervia	Cajeput Tree
Rhododendron caroliniaum	Carolina Rhododendron
Rhododendron catawbiense 'Roseum Elegans'	Roseum Elegans Rhododendron
Sedum spp.	Stonecrop
Yucca recurvifolia	Green Yucca

#### **VEGETATION MANAGEMENT**

#### **Product Information**

Apply Gemini® Granular to soil surfaces for preemergence control of listed grass and broadleaf weeds in non-crop areas including ornamentals (does not include container or field grown ornamentals) or surrounding non-crop areas such as managed rights-of-way for transportation systems and utilities (including roadways, roadsides, railways, and equipment yards) and facilities including substations, tank farms, pumping stations, parking and storage areas, and non-grazed fence rows. The best weed control occurs when the product is activated in the soil by 0.5 inch of irrigation or rainfall before listed weed seeds germinate and within 14 days after application.

#### Timing and Method of Application

Gemini® Granular is a preemergence herbicide only and will not control listed grassy or broadleaf weeds that have already emerged. It works best when applied to soil that is free of clods, weeds and debris and is activated by at least 0.5 inches of irrigation or rainfall or shallow incorporation to a depth of 1 to 2 inches. Weed control is improved if Gemini® Granular is activated in the soil before listed weed seeds germinate and within 14 days after application. Apply Gemini® Granular to newly-transplanted and established ornamentals as a broadcast or over-the-top application.

#### **Plant Sensitivity**

Direct application of Gemini® Granular to rapidly growing tissue or buds can injure desirable plants. In the spring when buds are rapidly growing and expanding, over-the-top application of Gemini® Granular can injure new growth of desirable plants, however, these effects are temporary. To reduce the possibility of injury at this time, wait to apply Gemini® Granular over the top of newly emerged vegetation until it has hardened off, unless your experience indicates that the ornamental plant will not be injured by the over-the-top application. After application, immediately apply overhead irrigation to the foliage to wash Gemini® Granular from plant surfaces onto soil. Do not apply to wet foliage to minimize the risk of crop injury.

## **Sensitivity of Ornamental Species - Vegetation Management**

Gemini® Granular will not likely harm the trees, shrubs, vines and flowers in **Table 8** at the listed application rates. Gemini® Granular can be applied over the top of the listed species.

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When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to Gemini® Granular.

Gemini® Granular is not recommended for weed control in the plants listed in Table 9.

#### **VEGETATION MANAGEMENT - NON-CROP AREAS**

#### **Product Information**

Apply Gemini® Granular to soil surfaces for preemergence control of many grass and broadleaf weeds in non-crop areas, including ornamentals (does not include container or field grown ornamentals) and established perennials, on or surrounding non-crop areas as directed in **Table 10**. The best weed control occurs when the product is activated in the soil by 0.5 inches of irrigation or rainfall before listed weed seeds germinate and within 14 days after application.

Table 10. Amount of Gemini Granular to Apply to Non-Crop Areas for Control of Weeds
Listed in Table 2

Site	Application Rate	Timing	Comments/ Instructions
Non-crop areas, including ornamentals, on or surrounding managed rights-of-way for transportation systems and utilities (including roadways, roadsides, railways, and equipment yards); facilities including substations, tank farms, pumping stations, parking and storage areas, and	100-200 lbs/acre	Before weed seeds germinate	Use higher labeled rate range for longer control.  More than one application per year is permitted, but do not exceed 375 lbs. per acre per year.
non-grazed fence rows.			

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE**: Store in a clean, dry place. Reseal opened bag by folding top down and securing.

**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 container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or 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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### **OPTIONAL TEXT AND CLAIMS**

[Additional claims:

Gemini G Claims (Subject to Verification)

- Uses less active ingredient but delivers the same weed control<sup>1</sup>
- Make more applications per year without exceeding EPA limits on the active ingredients (do not exceed 375 pounds of Gemini G per acre/year)<sup>1</sup>
- Contains unique R-50 Optimizer technology that improves delivery of the active ingredients allowing lower use rates<sup>1</sup>.
- Controls listed broadleaf and grassy weeds.
- Efficient, cost effective formulation.
- Gemini G can be used on:
  - container nursery stock,
  - o field nursery stock,
  - Christmas tree farms,
  - landscape beds,
  - o residential and commercial turf,
  - golf courses (other than greens)
  - vegetation management sites
- Low risk of phytotoxicity on:
  - Woody Plants
  - o Perennials,
  - Turfgrasses

## Gemini G - Reduced Rate Technology Names and Claims

 Patented Breakthrough Technology provides equal control with reduced pounds of active ingredient vs Gemini 3.7SC.

1st Choice: Gemini with R-50 [R50] [R/50] [R.50] [Optimizer Technology]



Logo for R-50 Optimizer® Technology

R-50 Optimizer Technology – Marketing Claims:

- [Gemini G] Delivers same weed control by optimizing the active ingredient performance even with low active ingredient application rates
- [Gemini G] Controls weeds with low[er] active ingredient rates.
- [Gemini G] Controls weeds at low[er] active ingredient rates.
- [Gemini G:] Same weed control iat lower active ingredient rates
- R-50 Optimizer Technology ensures maximum active ingredient efficiency allowing the applicator to use low[er] rates
- R-50 Optimizer Technology allows the user [applicator] to make more applications<sup>1</sup> per year without reaching the annual maximum EPA herbicide limits.
- R-50 Optimizer Technology ensures weed control with low herbicide active ingredient rates.
   R-50 Optimizer Technology ensures maximum efficiency letting the applicator use less [herbicide / insecticide / fungicide] without compromising [weed / insect / disease] control

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<sup>1</sup>Compared to Gemini 3.7SC.

- R-50 Optimizer Technology makes [Gemini G] or [your herbicide] work even at low active ingredient application rates.
- R-50 Optimizer Technology lets you use low[er] active ingredient rates without compromising weed control.
- R50 [facilitates], [promotes], [aids]) ([lower], [reduced], [halved]) Al exposure to ([valuable], [target], [desirable]) crops.
- R50 facilitates, low[er], Al exposure to valuable, crops.
- R50 facilitates, low[er], Al exposure to target, crops.
- R50 decreases crop exposure to the active ingredients in Gemini Granular

Alternative Branding for the Performance Enhancing Technology in Gemini Granular

Gemini with E/50 or E-50 (Technology)

E: Efficiency, economy

50: Half as much to achieve the same performance

Gemini with Optimize

Gemini with Optimizer Technology

Gemini with E-50 Optimizer

Optimize: To enhance the effectiveness of something; maximize its performance

Gemini with Target Technology

Enhanced efficiency in dispersing the actives to achieve greater performance

Gemini Enhanced

Enhanced with a technology that allows the use of half as much to achieve the same performance

Gemini with Eco-E (Technology)

Eco: Economy

Efficient or E: Allows the use of half as much to achieve the same performance

Gemini with Econ Technology

Econ: Economy benefits derived from using half as much to achieve the same performance

Gemini ELITE

Elite: Exclusive, select, best in class; spotlights the technology as being something that hasn't been available before

Gemini with Al/2 Technology

Gemini with Al/2 Enhanced Gemini with Al-MAXX

Half the active ingredient(s) to achieve the same performance

or Enhanced to MAXXimize the performance of the active(s)

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## WARRANTY/GUARANTEE INFORMATION DISCLAIMER AND LIMITATION OF LIABILITY

IMPORTANT NOTICE FROM EVERRIS NA INC. ("Everris"). PLEASE READ BEFORE USE.

To the extent consistent with applicable law, user or buyer accepts the conditions, disclaimer of warranties and limitations of liability. Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once for full refund.

**CONDITIONS:** The directions for use of this product are believed to be adequate and the user or buyer must always follow the label directions carefully and exercise judgment and caution when using this product under their growing conditions. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness, unsatisfactory or substandard results or other unintended consequences may result because of such factors as weather conditions, presence or absence of other materials, or the manner of use or application, all of which are beyond the control of Everris. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

WARRANTY: This product corresponds to all claims and descriptions set forth on the label and is reasonably fit for the purposes set forth in the directions for use on the label when used in accordance with those directions. This warranty is subject to the conditions and limitations stated herein. Everris recognizes that the rights and remedies of the user or buyer are subject to the provisions of the applicable law, but makes no other warranties or representations, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Everris is authorized to make any warranties beyond those contained herein or to modify the warranties contained therein. Subject to the user's or buyer's rights and remedies under the applicable law, Everris disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** Subject to the user's or buyer's rights and remedies under the applicable law, the exclusive remedy of the user or buyer and the liability of Everris or its affiliates, for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid by the user or Buyer for the quantity of this product involved or, at Everris' election, the replacement of the product. To the extent consistent with applicable law, Everris must have prompt notice of any claim so that a timely investigation of buyer's or user's claim can be made. Buyer and all users shall promptly notify Everris of any claims, whether based on contract, negligence, strict liability, other tort or otherwise or be barred from any remedy.

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Dublin, OH 43016
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