

SPECIMEN LABEL

Pro-Mate Prodiamine 0.29% Plus Fertilizer

FOR SELECTIVE PREEMERGENCE CONTROL OF GRASS AND BROADLEAF WEEDS IN LAWNS AND ORNAMENTAL TURF (excluding golf course putting greens)

LANDSCAPE ORNAMENTAL, ESTABLISHED PERENNIALS AND WILDFLOWER PLANTINGS

STOPS MANY UGLY WEED GRASSES BEFORE THEY GROW PREVENTS CRABGRASS, ANNUAL BLUEGRASS, FOXTAIL & MORE

ACTIVE INGREDIENT:

Prodiamine: [N³ N³-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine].....0.29%

INERT INGREDIENTS:99.71%

TOTAL:.....100.00%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

See back panel for further precautions and First Aid Information.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or repeated skin contact with product may cause allergic reactions in some individuals.

EPA Reg. No. 5905-573 EPA Est. No.
SN 082008/0309
NET WEIGHT: 50 Lbs. (22.68 Kg)

MANUFACTURED FOR:
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TN 38017

FIRST AID
IF IN EYES:
<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:
<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

IF SWALLOWED:
<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF INHALED:
<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (800) 424-9300, collect day or night, for emergency medical treatment information.

ENVIRONMENTAL HAZARDS

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it 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 washwaters.

DIRECTIONS FOR USE

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

For use on lawns, ornamental turf (excluding golf course putting greens), and ornamental trees, vines, and plants only. Not for use on plants being grown for sale or other commercial use, for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

This product is a selective pre-emergence herbicide that provides residual control of many grass and broadleaf weeds in established lawns and ornamental turf (excluding golf course putting greens), landscape ornamentals and established perennials and wildflower plantings. It controls susceptible weeds by inhibiting weed seeds, germination and root development. When used according to directions, it will control; barnyardgrass; bluegrass; annual (*Poa annua*); carpetweed; chickweed, common; chickweed, mouseear (from seed); crabgrass (large, smooth); crowfootgrass; cupgrass, woolly; foxtails, annual; goosegrass¹; henbit; itchgrass; johnsongrass (from seed); junglerice; knotweed; kochia; lambsquarter, common; lovegrass; panicum (Texas, fall, browntop); pigweed; purslane, common; pusley, Florida; rescuegrass³, shepherd's purse²,

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signalgrass, broadleaf; speedwell, Persian; sprangletop; spurge, prostrate; witchgrass; woodsorrel, yellow (from seed).

amount of this product that may be applied per year is given for each turf grass species. Do not exceed the maximum yearly rate listed:

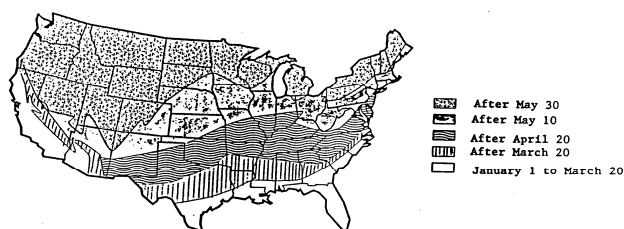
¹In many areas a single application of 5.2 to 11.9 pounds/1,000 square feet (225 to 518 pounds/acre) will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained with an initial application of 5.2 to 7.9 pounds/1,000 square feet (225 to 345 pounds/acre), followed after 60 to 90 days by a second application at doses that would not exceed the maximum annual rate (see "Minimum and Maximum Application Rate by Turfgrass Species" table in the Rates of Application section of this label).

²For this weed, apply in late summer, fall or winter prior to germination.

³Suppression only.

WHEN TO APPLY TO ESTABLISHED TURF: This product must be applied prior to germination of weed seeds, as it will not control established weeds.

THIS MAP SHOWS APPROXIMATE CRABGRASS GERMINATION DATES



APPLICATION DIRECTIONS: Apply this product uniformly, using a suitable spreader that has been properly calibrated. Most effective weed control will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1-2 inches) incorporation, prior to weed seed germination and within 14 days application.

USE PRECAUTIONS: The following precautions apply to the use of this product in turf grasses and lawns. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil (not thatch plus soil). Do not apply newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Disturbing the herbicide barrier with cultural practices (such as core aeration) may result in reduced weed control. Do not apply to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species. Do not apply through any type of irrigations system. Do not apply aerially. Do not graze or feed livestock forage cut from treated areas.

RATES OF APPLICATION: This product is recommended for use on the turf grass species listed in the following table. The maximum

MINIMUM AND MAXIMUM APPLICATION RATES (by Turf Grass Species)		
Turf Species	Minimum Rate	Maximum Annual Rate ¹
Bahiagrass, Bermudagrass ² , Centipedegrass, Zoysiagrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-Type)	2.75 lbs/1,000 sq. ft. (120 lbs/acre)	11.9 lbs./1,000 sq. ft. per year (518 lbs/acre per year)
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	2.75 lbs/1,000 sq. ft. (120 lbs./acre)	7.9 lbs/1,000 sq. ft. per year (345 lbs/acre per year)
Creeping Red Fescue	2.75 lbs/1,000 sq. ft. (120 lbs. acre)	6 lbs/1,000 sq. ft. per year (260 lbs/acre per year)
Creeping Bentgrass	2.75 lbs/1,000 sq. ft. (120 lbs/acre)	5.2 lbs/1,000 sq. ft. per year (225 lbs/acre per year)

¹These are the maximum rates per calendar year.

²May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 4.1 pounds/1,000 square feet (179 pounds/acre). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of foxtail, goosegrass and rescuegrass due to reduced rates used in sprigging situations.

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rates recommended for each turf species. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rates listed for longer periods of weed control.

WHEN TO OVERSEED AFTER APPLICATION: This product will inhibit germination of turf seed if overseeded too soon after application. Follow rates and intervals in table for best overseeding/reseeding results. See map above for states in North, Transition, and South Zones.

USE RATE	MONTHS BEFORE OVERSEEDING		
	North	Transition	South
2.75 pounds/1,000 sq. ft. (120 pounds/acre)	4	4	4

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5.2 pounds/1,000 sq. ft. (225 pounds/acre)	5	4	4
6 pounds/1,000 sq. ft. (260 pounds/acre)	6	5	5
6.3 pounds/1,000 sq. ft. (275 pounds/acre)	-	6	6
7.9 pounds/1,000 sq. ft. (345 pounds/acre)	-	7	7
9 pounds/1,000 sq. ft. (393 pounds/acre)	-	-	9
10.3 pounds/1,000 sq. ft. (448 pounds/acre)	-	-	10
11.9 pounds/1,000 sq. ft. (518 pounds/acre)	-	-	12

LANDSCAPE ORNAMENTALS: (including established perennials and wildflower plantings): This product may be applied for residual pre-emergence weed control in ornamentals. Apply at the rate of 5.2 to 11.9 pounds/1,000 square feet (225 to 518 pounds/acre) in fall and/or spring. Use higher rates of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 11.9 pounds/1,000 square feet (518 pounds/acre) per year.

SPREADER SETTINGS to apply at the listed pounds per 1,000 square feet						
	1 lbs.	2 lbs.	3 lbs.	4 lbs.	5 lbs.	6 lbs.
SGN 150-180						
Earthway Rotary	11	12	14	15	15	16
Ezee-Flow	C1	C1	C2	C2 ½	C3	C3
Lesco	C	D	H	I	I	J
Lesco	8	10	15	16	17	21
Scotts SR2000	H	I	J	K	L	M
SGN 200-220						
Earthway Rotary	12	14	15	16	18	20
Ezee-Flow	C1	C2	C2 ½	C3	A4	A5
Lesco	D	G	I	J	K	L
Lesco	10	15	17	21	22	24
Scotts SR2000	I	K	L	M	N	O
(May contain additional spreader brands/models, spreader settings and spreader use instructions as appropriate for the product.)						

APPLICATION TIMING AND INFORMATION: This product may be applied to newly transplanted and established ornamentals a broadcast, over the top or directed application. Around new transplants, delay application to allow soil to settle and water thoroughly before applying. Apply after cuttings form roots and become established. Apply before budding/grafting or after buds/grafts have taken to avoid any inhibition of the tissue union. This product is a pre-emergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1 to 2 inch) mechanical incorporation, prior to weed seed germination and within 14 days following application. Best weed control is obtained when applied to soil free

of clods, weeds and debris such as leaves. Prior to application, control existing vegetation by hand weeding, cultivation or the use of an appropriate post-emergence herbicide.

TOLERANT ORNAMENTAL SPECIES: This product will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to this product. Best results will be obtained when product is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. This product may be applied over the top of these species. When plants are under stress (such as heat, drought or frost damage) some cultivars of listed plants may be sensitive to this product.

SCIENTIFIC NAME

Abies spp.	Fir species* (Balsam, Frasier, Noble, etc.)
Abelia grandiflora	Abelia: Sherwood
Acer palmatum	Japanese Maple
A. Platanoides	Norway Maple
Achillea spp.	Yarrow: King Edward
Agapanthus africanus	Lily-of-the-Nile (African Lily)
Agapanthus orientalis	
Akebia quintata	Five-leaf of Chocolate Vine
Allium cemuum	Lady's Leek, Nodding Onion
Anemone hybrida	Japanese Anemone
Aquilegia spp.	Aquilegia: Red and Gold
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Artemisia spp.	Wormwood: Silver Mound, Castle
Aster spp.	Aster: Bonnie Blue, Purple Dome
Aster X Frikartii	
Athrium Filiz-femina	Lady Fern; Fern Lady
Aucuba japonica	Japanese Aucuba
Begonia spp.	Fibrous Begonia: Hardy Grandis
Berberis gladwynensis	Barberry
B. Julianae	Wintergreen Barberry
B. mentorensis	Mentor Barberry
B. Thunbergii	Japanese Barberry
B. Verruculosa	Warty Barberry
Bergenia cordifolia	
Boltonia asteroids	Snowbank
Buddleia davidii	Butterfly-Bush (Dwarf Blue); Royal Red
Buxus microphylla	Japanese Boxwood
Callistermon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Campanula carpatica	Tussock Bellflower, (White Clips)
Campis X Tagliabuana	Trumpet Flower, Madame Galen
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisoides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Ceratostigma plumbagonoides	

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Chamaecyparis pisifera	False Cypress	Iris siberica	Siberian Iris; Cabernet
Cleyera japonica	Cleyera	Iris spp.	Iris species*
Coreopsis spp.	Coreopsis (Calliopsis) Early Sunrise, Moonbeam	Jasminium nudiflorum	Winter Jasmine
Cornus florida	Flowering Dogwood	Juniperus chinensis	Chinese Juniper; Nick's Compact, Parsonnii
C. Stolonifera	American Dogwood	J. conferta	Shore Juniper; Blue Pacific
Cortaderia seloana	Pampas Grass	J. davurica	Parsoni
Cotoneaster apiculatus	Cranberry Cotoneaster	J. horizontalis	Creeping Juniper
C. buxifolius	Cotoneaster	Justicia brandegeana	Shrimp Plant
C. dammeri	Bearberry Cotoneaster	Lagerstromia indica	Crape Myrtle
C. Microphyllus	Rockspray Cotoneaster	Lagerstromia indica X Fauriei	Crape Myrtle; Tuscarora
Cretaeagus spp.	Hawthorne	Lantana montevidensis	Weeping Lantana
Crococsmia spp.	Lucifer	Lavender spp.	Lavender; Munstead
Cupressus sempervirens	Italian Cypress	Leonopodium alpinum	Edelweiss
Delosperma alba	White Trailing Ice Plant	Ligustrum amurense	Amur Privet
Delosperma spp.	Cooperi Pink	Ligustrum sinense	Chinese Privet; Variegata
Delphinium spp.	Larkspur: Blue Elf	L. japonicum	Japanese Privet
Dianthus deltoides	Dianthus: Maiden Pinks "Zing"	L. lucidum	Glossy Privet (Waxleaf)
D. gratianopolitanus	Cheddar Pink	Lilium spp.	Lily; Jazz
Dodonea viscosa	Hop Bush	Liriope muscari	Big Blue Lily, Silver Mound, Evergreen Giant
Echinacea purpurea	Coneflower, Purple; Magnus	Liriope muscari var. variegata	Liriope, Variegated
Elaeagnus pungens	Silverberry	Liriope spicata	Liriope, Creeping
Euonymus fortunei	Wintercreeper	Lobelia Cardinalis	Cardinal Flower, Indian Pink
E. japonica	Evergreen Euonymus	Lonicera japonica	Japanese Honeysuckle
E. kiautschovica	Spreading Euonymus	L. tatarica	Tatarian Honeysuckle
Fatsia japonica	Japanese Aralia	Lorapetalum Chinese	Burgundy
Forsythia intermedia	Border Forsythia	Lythrum spp.	Loosestrife; Modern Pink
Forsythia suspensa	Weeping Forsythia	Magnolia spp.	Magnolia species*
F. viridissima	Greenstem Forsythia	Maleophora luteola	Ice Plant
Gaillardia spp.	Gaillardia, Blanket Flower: "Goblin"	Miscanthus sinensis	Yaku Jima, Silberfeder
Gardenia jasminoides	Gardenia, Cape-Jasmine	Nandina domestica	Heavenly Bamboo
Gaura spp.		Narcissus spp.	Narcissus species*
Gentiana dahurica	Gentian	Nerium oleander	Oleander
Geranium cinereum	Cranesbill	Ophiopogon japonicus	Mondo Grass
Gladiolus spp.	Gladiolus species*	Omanthus heterophyllus	Osmanthus (False Holly); Gulf Tide
Gypsophilia repens	Baby's Breath	Osteospermum fruiticosum	Trailing African Daisy
Hedera helix	English Ivy	Oxydendrum arboreum	Sourwood
Hellanthemum spp.	Sunrose	Paeonia suffruticosa	Tree Peony
Hemerocallis spp.	Daylily: Aztec Gold, Stella de Oro, Tender Love	Pennisetum setaceum	Fountain Grass (Dwarf)
Hibiscus	Rose Sharon**	Perovskia atriplicifolia	
Hibiscus spp.	Mallow: Disco Belle White	Photinia Fraseri	Frasier's Photinia (Redtip)
Hibiscus rosa-sinensis	Chinese Hibiscus	Physotegia Virginiana	Dragonhead, False; Vivid
Hosta plantaginea	Hosta, Plantain Lily (Fragrant)	Picea spp.	Spruce species* (Colorado Blue, Norway, etc.)
H. Sieboldiana	Hosta, "Seersucker"	Pieris japonica	Lily-of-the-Valley Bush
Houttuynia cordata var. variegata		Pinus brutia	Calabrian Pine
Hydrangea macrophylla	Bigleaf Hydrangea	P. canariensis	Canary Island pine
Ilex Bernyi	Holly	P. Elliotti	Slash Pine
Ilex cornuta	Chinese Holly	P. halepensis	Aleppo Pine
I. crenata	Japanese Holly	P. nigra	Austrian Pine
I. opaca	American Holly	P. palustris	Longleaf Pine
I. vomitoria	Yaupon Holly, Schillings	P. radiata	Monterey Pine
Inula ensifolia		P. strobus	Eastern White Pine
Iris ensata	Sword-Leaved Iris; Jodlesong	P. sylvestris	Scotch Pine
		P. taeda	Loblolly Pine
		P. Thunbergiana	Japanese Black Pine

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P. Virginiana	Virginia Pine
Pittosporum rhombifolium	Queensland Pittosporum
P. tobira	Japanese Pittosporum
Podocarpus macrophyllus	Japanese Yew
Prunus laurocerasus	English Laurel
Pseudotsuga menziesii	Douglas Fir*
Pyracantha coccinea	Firethorn (Scarlet)
P. fortuneana	Firethorn
P. koidzumii	Firethorn
Pyrus spp.	Bradford Pear spp.
Quercus Shumardii	Oak, Shumard's Red
Quercus spp.	Oak species
Raphiolepis indica	Indian Hawthorne
Raphiolepis umbellata	Yedda Hawthorne
Rhododendron	'Coral Bells,' 'Formosa,' 'Hino-crimson,' 'PJM' (including Azalea) 'Delaware Valley White', 'Roseum Elegans,' 'Flame Creeper', 'Girard Crimson', Wakeilebisu' 'White Gumbo', 'George L. Tabor' Lady Bank's Rose
Rosa banksiae	Black-Eyed Susan;
Rudbeckia spp.	Goldstrum
Santolina virens	Santolina
Saxifraga spp.	Saxifrage; Purple Dome
Scabiosa spp.	Pincushion Flower
Sedum album	Stonecrop
Sedum caudicicola	Stonecrop; Lidakense
Sedum dasyphyllum	Stonecrop
Sedum spurium	Stonecrop; Dragon Blood
Spiraea bumalda	Spiraea; Anthony Waterer
Syzygium paniculatum	Australian Brushcherry
Taxus cuspidata	Japanese Yew
T. media	Yew
Teucrium spp.	Germander
Thalictrum diptercarpum	Meadow Rue
Thuja occidentalis	American Arborvitae
Trachelospermum asiaticum	Star Jasmine
Tsuga Canadensis	Canada Hemlock
Tulipa spp.	Tulip species
Veronica spp.	Veronica, Speedwell; Sunny Border
Viburnum japonicum	Japanese Viburnum
V. odoratissimum	Sweet Viburnum
V. plicatum	Japanese Snowball
V. rigidum	Canary Island Viburnum
V. suspensum	Arrowwood Viburnum
V. tinus	Laurustinus
V. trilobium	Cranberry Bush
V. wrightii	Leatherleaf Viburnum
Vinca major	Greater Periwinkle, Vinca
Vinca Minor	Common Periwinkle, Vinca
Weigela florida	Old Fashioned Weigela
Yucca aloifolia	Spanish Bayonet, Yucca
Y. filametosa	Adam's Needle, Yucca

*Not for use on container grown plants.

STORAGE AND DISPOSAL

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

STORAGE: Store in original container in a locked storage area out of reach of children and domestic animals.

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: Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. 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.

CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATION OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop, injury, ineffectiveness or other unintended consequences may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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