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: [N ³ N ³ -Di- <u>n</u> -propyl-2,4-dinitro-6-(trifluorome	thyl)- <u>m</u> -
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:

- 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:

- 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:

- 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:

- 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,

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

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.

³Suppresstion 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 moving, whichever is longer. Injury to desireable 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

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:

MINIMUM AND MAXIMUM APPLICATIOON RATES (by Turf Grass Species)			
Turf Species	Minimum Rate	Maximum Annual Rate ¹	
Bahiagrass,	2.75 lbs/1,000 sq.	11.9 lbs./1,000 sq.	
Bermudagrass ²	ft.	ft. per year	
Centipedegrass,	(120 lbs/acre)	(518 lbs/acre per	
Zoysiagrass, Seashore		year)	
Paspalum, St.			
Augustinegrass			
Tall Fescue (including			
turf-Type)			
Buffalograss	2.75 lbs/1,000 sq.	7.9 lbs/1,000 sq. ft.	
Kentucky Bluegrass	ft.	per year	
Perennial Ryegrass	(120 lbs./acre)	(345 lbs/acre per	
		year)	
Creeping Red Fescue	2.75 lbs/1,000 sq.	6 lbs/1,000 sq. ft.	
	ft.	per year	
	(120 lbs.acre)	(260 lbs/acre per	
		year)	
Creeping Bentgrass	2.75 lbs/1,000 sq.	5.2 lbs/1,000 sq. ft.	
	ft.	per year	
	(120 lbs/acre)	(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 overseedling/reseeding results. See map above for states in North, Transition, and South Zones.

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

<u>Disclaimer:</u> Always refer to the label <u>on the product</u> before using Helena or any other label.

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	

Square reet						
	1	2	3	4	5	6
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
SGN 150-180						
Earthway Rotary	11	12	14	15	15	16
Ezee-Flow	C1	C1	C2	C2 ½	C3	C3
Lesco	С	D	Н		I	J
Lesco	8	10	15	16	17	21
Scotts SR2000	Н	1	J	K	L	М
SGN 200-220						
Earthway Rotary	12	14	15	16	18	20
Ezee-Flow	C1	C2	C2 1/2	C3	A4	A 5
Lesco	D	G		J	K	L
Lesco	10	15	17	21	22	24
Scotts SR2000	l	Κ	L	М	N	0

(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.

Abelia grandflora
Acer palmatum
A. Platanoides
Achillea spp.
Agapanthus africanus
Agapanthus orientalis
Akebia quintata
Allium cemuum
Anemone hybrida
Aquillegia spp.
Arctostaphylos densiflora
Arctotheca calendula
Artemesia spp.

Aster spp.

Aster X Frikartii Athrium Filiz-femina Aucuba japonica Begonia spp.

Berberis gladwynensis

B. Julianae
B. mentorensis
B. Thunbergii
B. Verruculosa
Bergenia cordifolia
Boltonia asteroids
Buddleia davidii

Buxus microphylla Callistermon viminalis Calluna vulgaris Campanula carpatica

Campis X Tagliabuana

Carpobrotus edulis Cassia artemisoides Ceanothus rigidus Ceratostigma plumbagonoides

COMMON NAME

Fir species* (Balsam, Frasier, Noble, etc.) Abelia: Sherwood Japanese Maple Norway Maple Yarrow: King Edward Lily-of-the-Nile (African Lily)

Five-leaf of Chocolate Vine Lady's Leek, Nodding Onion Japanese Anenome Aquilegia: Red and Gold Vine Hill Manzanita Cape Weed Wormwood; Silver Mound, Castle

Aster: Bonnie Blue, Purple

Dome

Lady Fern; Fern Lady Japanese Aucuba Fibrous Begonia: Hardy Grandis Barberry Wintergreen Barberry Mentor Barberry

Japanese Barberry

Warty Barberry

Feathery Cassia

Wild Lilac

Snowbank
Butterfly-Bush (Dwarf Blue);
Royal Red
Japanese Boxwood
Weeping Bottlebrush
Scotch Heather
Tussock Bellflower, (White
Clips)
Trumpet Flower, Madame
Galen
Hottentot Fig (Ice Plant)

Chamaecyparis pisifera Cleyera japonica Coreopsis spp.

Cornus florida C. Stolonifera Cortaderia seloana Cotoneaster apiculatus

C. buxifolius
C. dammeri
C. Microphyllus
Cretaegus spp.
Crocosmia spp.

Cupressus sempervirens Delosperma alba Delosperma spp. Delphinium spp. Dianthus deltoides

D. gratianopolitanus
Dodonea viscosa
Echinacea purpurea
Elaeagnus pungens
Euonymus fortunei
E. japonica
E. kiautschovica
Fatsia japonica
Forsythia intermedia
Forsythia suspensa
F. viridissima
Gaillardia spp.

Gardenia jasminoides

Gaura spp.
Gentiana dahurica
Geranium cinereum
Gladiolus spp.
Gypsophilia repens
Hedera helix
Hellanthemum spp.
Hemerocallis spp.

Hibiscus Hibiscus spp. Hibiscus rosa-sinensis Hosta plantaginea

H. Sieboldiana

Houttuynia cordata var. variegata

Hydrangea macrophylia

Ilex Bernyi Ilex cornuta I. crenata I. opaca I. vomitoria Inula ensifolia Iris ensata False Cypress Cleyera

Coreopsis (Calliopsis) Early Sunrise, Moonbeam Flowering Dogwood American Dogwood Pampas Grass Cranberry Cotoneaster

Cotoneaster

Bearberry Cotoneaster Rockspray Cotoneaster

Hawthorne Lucifer Italian Cypress White Trailing Ice Plant

Cooperi Pink Larkspur: Blue Elf Dianthus: Maiden Pinks

"Zing" Cheddar Pink Hop Bush

Coneflower, Purple; Magnus

Silverberry
Wintercreeper
Evergreen Euonymus
Spreading Euonymus
Japanese Aralia
Border Forsythia
Weeping Forsythia
Greenstem Forsythia
Gaillardia, Blanket Flower:

"Goblin"

Gardenia, Cape-Jasmine

Gentian Cranesbill Gladiolus species* Baby's Breath English Ivy Sunrose

Daylily: Aztec Gold, Stella de

Oro, Tender Love Rose Sharon**

Mallow: Disco Belle White

Chinese Hibiscus Hosta, Plantain Lily

(Fragrant)

Hosta, "Seersucker"

Bigleaf Hydrangea

Holly Chinese Holly Japanese Holly American Holly

Yaupon Holly, Schillings

Sword-Leaved Iris; Jodlesong

Iris siberica Iris spp.

Jasminium nudiflorum Juniperus chinensis

J. conferta
J. davurica
J. horizontalis
Justicia brandegeana
Lagerstromia indica

Lagerstromia indica X Fauriei Lantana montevidensis

Lantana montevidensis
Lavender spp.
Leonopodium alpinum
Ligustrum amurense
Ligustrum sinense
L. japonicum
L. lucidum

Lilium spp. Liriope muscari

Liriope muscari var. variegata

Liriope spicata
Lobelia Cardinalis
Lonicera japonica
L. tatarica

Lorapetalum Chinese

Lythrum spp.
Magnolia spp.
Maleophora luteola
Miscanthus sinensis
Nandina domestica
Narcissus spp.
Nerium oleander
Ophiopogon japonicus
Omanthus heterphyllus

Osteospermum fruiticosum Oxydendrum arboreum Paeonia suffruticosa Pennisetum setaceumi

Perovskia atriplicifolia Photinia Fraseri Physotegia Virginiana

Picea spp.

Pieris japonica
Pinus brutia
P. canariensis
P. Elliotti
P. halepensis
P. nigra
P. palustrus
P. radiata
P. strobus
P. sylvestris
P. taeda
P. Thunbergiana

Siberian Iris; Cabernet Iris species* Winter Jasmine

Chinese Juniper; Nick's Compact, Parsonnii Shore Juniper; Blue Pacific

Parsoni

Creeping Juniper Shrimp Plant Crape Myrtle

Crape Myrtle; Tuscarora Weeping Lantana Lavender; Munstead

Edelweiss Amur Privet

Chinese Privet; Variegata

Japanese Privet
Glossy Privet (Waxleaf)

Lily; Jazz

Big Blue Lily, Silver Mound,

Evergreen Giant Liriope, Variegated Liriope, Creeping

Cardinal Flower, Indian Pink Japanese Honeysuckle Tatarian Honeysuckle

Burgundy

Loosestrife; Modern Pink Magnolia species*

Ice Plant

Yaku Jima, Silberfeder Heavenly Bamboo Narcissus species* Oleander

Mondo Grass Osmanthus (False F

Osmanthus (False Holly);

Gulf Tide

Trailing African Daisy

Sourwood Tree Peony

Fountain Grass (Dwarf)

Frasier's Photinia (Redtip)
Dragonhead, False; Vivid
Spruce species* (Colorado
Blue, Norway, etc.)
Lily-of-the-Valley Bush
Calabrian Pine
Canary Island ine
Slash Pine
Aleppo Pine
Austrian Pine
Longleaf Pine
Monterey Pine
Eastern White Pine
Scotch Pine
Loblolly Pine

Japanese Black Pine

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P. Virginiana

Pittosporum rhombifolium

P. tobira

Podocarpus macrophyllus Prunus laurocerasus Pseudotsuga menziesii Pyracantha coccinea

P. fortuneana P. koidzumii Pyrus spp.

Quercus Shumardii Quercus spp. Raphiolepsis indica Raphiolepsis umbellate Rhododendron

Rosa banksiae Rudbeckia spp.

Santolina virens Saxifraga spp. Scabiosa spp.

Sedum album Sedum cauticola

Sedum dasyphyllum Sedum spurium Spiraea bumalda

Syzygium paniculatum Taxus cuspidata T. media

Teucrium spp.
Thalictrum diptercarpum
Thuja occidentalis

Trachelospermum asiatum Tsuga Canadensis Tulipa spp.

Veronica spp.

Viburnum japonicum V. odoratissimum V. plicatum V. rigidum V. suspensum

V. tinus
V. trilobium
V. wrightii
Vinca major
Vinca Minor
Weigela florida
Yucca aloifolia
Y. filametosa

*Not for use on container grown plants.

Virginia Pine

Queensland Pittosporum Japanese Pittosporum

Japanese Yew English Laurel Douglas Fir* Firethorn (Scarlet)

Firethorn Firethorn

Bradford Pear spp.
Oak, Shumard's Red
Oak species
Indian Hawthorne
Yedda Hawthorne

'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 Black-Eyed Susan;

Goldstrum Santolina

Saxifrage; Purple Dome Pincushion Flower

Stonecrop

Stonecrop; Lidakense

Stonecrop

Stonecrop; Dragon Blood Spirea; Anthony Waterer Australian Brushcherry

Japanese Yew Yew

Germander Meadow Rue American Arborvitae Star Jasmine Canada Hemlock Tulip species

Veronica, Speedwell; Sunny

Border

Japanese Viburnum Sweet Viburmum Japanese Snowball Canary Island Viburnum Arrowwood Viburnum

Laurustinus
Cranberry Bush
Leatherleaf Viburnum
Greater Periwinkle, Vinca
Common Periwinkle, Vinca
Old Fashioned Weigela
Spanish Bayonet, Yucca
Adam's Needle, Yucca

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

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 LIMITATIONOF 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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