

For selective preemergence control of grass and broadleaf weeds in: • Established Turf Grasses (excluding golf course putting greens) and lawns • Landscape Ornamentals (including established perennials and wildflower plantings)

Active Ingredient

Prodiamine ¹ Other Ingredients Total ¹ (CAS # 29091-21-2)		0.42% 99.58% 100.00%
EPA Reg No.: 53883-297-94391	EPA Est. No.: 94391-KS-1	
Guaranteed Analysis Total Nitrogen (N)		13.00%

11.540% Urea Nitrogen* 1.275% Water Insoluble Nitrogen

DERIVED FROM: Urea and Activated Sewage.

*6.500% Stabilized urea nitrogen from urea coated with .371% NBPT.

KEEP OUT OF REACH OF CHILDREN CAUTION

(See the following section, Precautionary Statements, Hazards To Humans and Domestic Animals, for additional information.)

	FIRST AID
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing. 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.
	HOT LINE NUMBER
Have the product of	container or label with you when calling a poison control center or doctor, or going

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

Manufactured and Guaranteed By:	
Mears Fertilizer, Inc.	
629 North Industrial Road	
El Dorado, KS 67042	NET WE

50 l ba (22 68 Kaa)

F1958

Prodiamine Herbicide 0.42% Plus Turf Fertilizer 13-00-00

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.

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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. To protect the environment, 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 of the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

* Established turf grasses (excluding golf course putting greens) and lawns,

* Landscape ornamentals

* Established perennials and wildflower plantings

This product controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when it is activated by at least 1/2 inch of rainfall, irrigation, or shallow (1 to 2 inches) incorporation, prior to weed seed germination and within 14 days following application.

Not for use on plants being grown for; (1) Sale or other commercial use, (2) for commercial seed production, or (3) 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. Do not graze or feed livestock forage cut from areas treated with this product. Do not apply aerially. Do not apply to golf course putting greens. Do not apply this product through any type of irrigation system.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

WEEDS CONTROLLED: When used in accordance with this label this product will provide control of the following weeds:

Barnyardgrass, Bluegrass, Annual (Poa annua), Carpetweed, Chickweed - common, Chickweed, mouse ear (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 0.65lb. to 1.5 lb. active ingredient per acre (equal to 155 lbs. to 357 lbs./ A of this product [or] equal to 3.6 to 8.2 lbs./10130 sq. ft. of this product) will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 0.65 lb. to 1.0 lb. a.i. per acre (equal to 155 lbs. to 328 lbs./A of this product [or] equal to 3.6 to 5.5 lbs/1000 sq. ft of this product) followed after 60 to 90 days by a second application at doses that would not exceed those given in the Maximum Annual Rate Table. Do not exceed the maximum rate for turf grass species listed in the Maximum Annual Rate Table above. ²Applications for this weed should be made in late summer, fall, or winter prior to germination. ³Suppression only. 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. All applications must be made prior to germination of the weed seeds.

APPLICATION DIRECTIONS: Apply uniformly with suitable, calibrated application equipment.



ESTABLISHED TURF: This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of this product that may be applied per year is given for each turf grass species in the Maximum Annual Rates section of this label. Most effective weed control in turf grasses will be obtained when this product is activated by at least 0.5 inches of rainfall or irrigation prior to weed seed germination and within 14 days following application. See the map above for approximate crabgrass seed germination dates.

PRODIAMINE	GROUP	3	HERBICIDE
------------	-------	---	-----------

RATES OF APPLICATION: This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. This product will not control established weeds. Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by this product is related to the rate applied.

MAXIMUM ANNUAL RATES: This product is for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

Maximum Application Rate/Calendar Year of turf fertilizer by turf grass species ⁽¹⁾				
Turf Species	Lbs. Product/A [or]	Lbs. Product/1000 sq. ft.	Lbs. a.i/A	
Creeping Bentgrass	155	3.6	0.65	
Creeping Red Fescue	179	4.1	0.75	
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	238	5.5	1	
Bermudagrass ⁽²⁾ , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type), Zoysia	357	8.2	1.5	

¹These are the maximum rates per calendar year by species limitations. ²May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 0.5 lb. a.i./acre (equal to 119 lbs./ A of this product [or] equal to 2.7 lbs./1000 sq. ft. of this product). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass, and Rescuegrass due to reduced product rates used in sprigging situations.

* Do not apply more than 1.5 lbs. a.i. per calendar year per acre (equal to 357 lbs./A of this product [or] equal to 8.2 lbs./1000 sq. ft. of this product).

* Use higher rates of this product to achieve higher levels of fertility and longer periods of weed control for each turf type, but do not exceed the maximum application rates specified in the Maximum Annual Rates Table.

WHEN TO APPLY AFTER OVERSEEDING TURF: 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.

WHEN TO OVERSEED AFTER APPLICATION: This product will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the following table below for best overseeding/reseeding results.

Lbs. Product/Acre	Lbs Product/1000 sq.		MONTHS BEFORE OVERSEEDING		
LDS. PIOUUCI/ACIE	ft.	Lbs. ai/A	North	Transition	South
119	2.7	0.50	4	4	4
155	3.6	0.65	5	4	4
179	4.1	0.75	6	5	5
190	4.4	0.80	-	6	6
238	5.5	1.00	-	7	7
271	6.2	1.14	-	-	9
310	7.1	1.30] -	-	10
357	8.2	1.50	-	-	12

USE RATES AND WHEN TO APPLY: Apply in fall and/or spring, 0.65 to 1.5 lbs. active ingredient per acre, which is equal to 3.6 to 8.2 lbs. of this product per 1,000 sq. ft. of ornamental plantings; therefore 20 lbs of this product will treat 2,439 to 5,556 sq. ft. Use the higher rates of application for longer control periods. Sequential applications may be made as long as the total amount of product applied does not exceed the maximum annual application rate of 1.5 lbs. a.i. per acre.

ESTABLISHED LANDSCAPE ORNAMENTALS: This product may be applied to established ornamentals as a broadcast, over the top, or directed application. Irrigation or rainfall soon after application will wash residues off plant foliage and activate it into the soil.

NEWLY TRANSPLANTED LANDSCAPE ORNAMENTALS: This product may be applied to newly transplanted ornamentals as a broadcast, over the top, or directed application. Delay application to allow soil to settle around new transplants and water thoroughly before applying this product. 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.

THRIVE ENDURANCE is a trademark of Mears Fertilizer, Inc.



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 it 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	COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME
Abies spp.	Fir species** (Balsam, Frasier, Noble, etc.)	Gardenia jasminoides Gaura spp.	Gardenia, Cape-Jasmine	Picea spp.	Spruce species** (Colorado Blue, Norway, etc.)
Abelia grandflora	Abelia: Sherwood	Gentiana dahurica	Gentian	Pieris japonica	Lily-of-the-Valley Bush
Acer palmatum	Japanese Maple	Geranium cinereum	Cranesbill	Pinus brutia	Calabrian Pine
A. Platanoides	Norway Maple		Gladiolus species**	P. canariensis	Canary Island Pine
		Gladiolus spp.			
Achillea spp.	Yarrow: King Edward	Gypsophilia repens	Baby's Breath	P. Elliottii	Slash Pine
Actinidia chinensis	Kiwi*	Hedera helix	English Ivy	P. halepensis	Aleppo Pine
Agapanthus africanus	Lily-of-the-Nile (African Lily)	Hellanthemum spp.	Sunrose	P. nigra	Austrian Pine
Agapanthus orientalis		Hemerocallis spp.	Daylily: Aztec Gold, Stella de Oro,		Longleaf Pine
Akebia quintata	Five-leaf or Chocolate Vine		Tender Love	P. radiata	Monterey Pine
Allium cemuum	Lady's Leek, Nodding Onion	Hibiscus	Rose of Sharon**	P. strobus	Eastern White Pine
Anemone hybrida	Japanese Anenome	Hibiscus spp.	Mallow: Disco Belle White	P. sylvestris	Scotch Pine
Aquilegia spp.	Aquilegia: Red and Gold	Hibiscus rosa-sinensis	Chinese Hibiscus	P, taeda	Loblolly Pine
Arctostaphylos densiflora	Vine Hill Manzanita	Hosta plantaginea	Hosta, Plantain Lily (Fragrant)	P. Thunbergiana	Japanese Black Pine
Arctotheca calendula	Cape Weed	H. Sieboldiana	Hosta, "Seersucker"	P. Virginiana	Virginia Pine
Artemesia spp.	Wormwood; Silver Mound, Castle	Houttuynia cordata var. variegata		Pistachio spp.	Pistachio*
Aster spp.	Aster: Bonnie Blue, Purple Dome	Hydrangea macrophylla	Bigleaf Hydrangea	Pittosporum rhombifolium	Queensland Pittosporum
Aster X Frikartii	Allorit Bonnio Blac, Faiple Bonno	llex Bernyi	Holly	P. tobira	Japanese Pittosporum
Athrium Filiz-femina	Lady Fern; Fern Lady	llex cornuta	Chinese Holly	Podocarpus macrophyllus	Japanese Yew
		l. crenata			
Aucuba japonica	Japanese Aucuba		Japanese Holly	Prunus laurocerasus	English Laurel
Begonia spp.	Fibrous Begonia: Hardy Grandis	I. opaca	American Holly	Prunus spp.	Almond, Apricot, Nectarine, Peach,
Berberis gladwynensis	Barberry	I. vomitoria	Yaupon Holly, Schillings		Plum and Prune*
B. Julianae	Wintergreen Barberry	Inula ensifolia		Pseudotsuga menziesii	Douglas Fir**
B. mentorensis	Mentor Barberry	Iris ensata	Sword-Leaved Iris; Jodlesong	Pyracantha coccinea	Firethorn (Scarlet)
B. Thunbergii	Japanese Barberry	Iris siberica	Siberian Iris; Cabernet	P. fortuneana	Firethorn
B. Verruculosa	Warty Barberry	Iris spp.	Iris species**	P. koidzumii	Firethorn
Bergenia cordifolia		Jasminium nudiflorum	Winter Jasmine	Pyrus spp.	Bradford Pear spp.
Boltonia asteroides	Snowbank	Juniperus chinensis	Chinese Juniper; Nick's Compact,	Quercus Shumardii	Oak, Shumard's Red
Buddleia davidii	Butterfly-Bush (Dwarf Blue);		Parsonnii	Quercus spp.	Oak species
	Royal Red	J. conferta	Shore Juniper; Blue Pacific	Raphiolepsis indica	Indian Hawthorne
Buxus microphylla	Japanese Boxwood	J. davurica	Parsoni	Raphiolepsis umbellata	Yedda Hawthorne
Callistemon viminalis	Weeping Bottlebrush	J. horizontalis	Creeping Juniper	Rhododendron	'Coral Bells,' 'Formosa,' 'Hino-crimson,
Calluna vulgaris	Scotch Heather	Juglans spp.	Walnut*	(including Azalea)	' 'PJM', 'Delaware Valley White','
				(Including Azalea)	
Campanula carpatica	Tussock Bellflower, (White Clips)	Justicia brandegeana	Shrimp Plant		'Roseum Elegans, 'Flame Creeper',
Campis X Tagliabuana	Trumpet Flower, Madame Galen	Lagerstromia indica	Crape Myrtle		'Girard Crimson', 'Wakeiebisu', 'White
Carpobrotus edulis	Hottentot Fig (Ice Plant)	Lagerstromia indica X Fauriei	Crape Myrtle; Tuscarora		Gumbo', 'George L. Tabor'
Cassia artemisoides	Feathery Cassia	Lantana montevidensis	Weeping Lantana	Rosa banksiae	Lady Bank's Rose
Ceanothus rigidus	Wild Lilac	Lavender spp.	Lavender; Munstead	Rosmarinus officinalis	Rosemary*
Ceratostigma plumbagonoides		Leonopodium alpinum	Edelweiss	Rudbeckia spp.	Black-Eyed Susan; Goldsturm
Chamaecyparis pisifera	False Cypress	Ligustrum amurense	Amur Privet	Santolina virens	Santolina
Cleyera japonica	Cleyera	Ligustrum sinense	Chinese Privet; Variegata	Saxifraga spp.	Saxifrage; Purple Dome
Citrus spp.	Citrus species*	L. japonicum	Japanese Privet	Scabiosa spp.	Pincushion Flower
Coreopsis spp.	Coreopsis (Calliopsis) Early	L. lucidum	Glossy Privet (Waxleaf)	Sedum album	Stonecrop
	Sunrise, Moonbeam	Lilium spp.	Lily; Jazz	Sedum cauticola	Stonecrop; Lidakense
Cornus florida	Flowering Dogwood	Liriope muscari	Big Blue Lily, Silver Mound,	Sedum dasyphyllum	Stonecrop
C. Stolonifera	American Dogwood	Emope museum	Evergreen Giant	Sedum spurium	Stonecrop; Dragon's Blood
Cortaderia selloana	Pampas Grass	Liriope muscari var. variegata	Liriope, Variegated	Spiraea bumalda	Spirea; Anthony Waterer
Cotoneaster apiculatus	Cranberry Cotoneaster	Liriope spicata	Liriope, Creeping	Syzygium paniculatum	Australian Brushcherry
C. buxifolius	Cotoneaster	Lobelia Cardinalis	Cardinal Flower, Indian Pink	Taxus cuspidata	Japanese Yew
C. dammeri	Bearberry Cotoneaster	Lonicera japonica	Japanese Honeysuckle	T. media	Yew
C. Microphyllus	Rockspray Cotoneaster	L. tatarica	Tatarian Honeysuckle	Teucrium spp.	Germander
Cretaegus spp.	Hawthorne	Lorapetalum chinense	Burgundy	Thalictrum diptercarpum	Meadow Rue
Crocosmia spp.	Lucifer	Lythrum spp.	Loosestrife; Modern Pink	Thuja occidentalis	American Arborvitae
Cupressus sempervirens	Italian Cypress	Magnolia spp.	Magnolia species**	Trachelospermum asiatum	Star Jasmine
Delosperma alba	White Trailing Ice Plant	Maleophora luteola	Ice Plant	Tsuga canadensis	Canada Hemlock
Delosperma spp.	Cooperi Pink	Malus spp.	Crabapple*	Tulipa spp.	Tulip species
Delphinium spp	Larkspur: Blue Elf	Miscanthus sinensis	Yaku Jima, Silberfeder	Veronica spp.	Veronica, Speedwell; Sunny Border
Dianthus deltoides	Dianthus: Maiden Pinks "Zing"	Nandina domestica	Heavenly Bamboo	Viburnum japonicum	Japanese Viburnum
D. gratianopolitanus	Cheddar Pink	Narcissus spp.	Narcissus species**	V. odoratissimum	Sweet Viburnum
Dodonea viscosa	Hop Bush	Nerium oleander	Oleander	V. plicatum	Japanese Snowball
Echinacea purpurea	Coneflower, Purple; Magnus	Olea europaea	Olive*	V. rigidum	Canary Island Viburnum
				V. suspensum	
Elaeagnus pungens	Silverberry	Ophiopogon japonicus	Mondo Grass		Arrowood Viburnum
Euonymus fortunei	Wintercreeper	Omanthus heterphyllus	Osmanthus (False Holly); Gulf Tide		Laurustinus
E. japonica	Evergreen Euonymus	Osteospermum fruticosum	Trailing African Daisy	V. trilobium	Cranberry Bush
E. kiautschovica	Spreading Euonymus	Oxydendrum arboretum	Sourwood	V. wrightii	Leatherleaf Viburnum
Fatsia japonica	Japanese Aralia	Paeonia suffruticosa	Tree Peony	Vinca major	Greater Periwinkle, Vinca
	Border Forsythia	Pennisetum setaceumi	Fountain Grass (Dwarf)	Vinca Minor	Common Periwinkle, Vinca
				1.000	
Forsythia intermedia Forsythia suspensa	Weeping Forsythia	Perovskia atriplicifolia		Vitis spp.	Grape*
Forsythia intermedia Forsythia suspensa	Weeping Forsythia	Perovskia atriplicifolia Persea americana	Avocado*		
Forsythia intermedia			Avocado* Frasier's Photinia (Redtip)	Vitis spp. Weigela florida Yucca aloifolia	Grape ⁻ Old Fashioned Weigela Spanish Bayonet, Yucca

USE PRECAUTIONS AND RESTRICTIONS: The following precautions apply to the use of this product in turf grasses and lawns: (1) Application of this product may thin emerged annual bluegrass and newly overseeded grasses. (2) 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. (3) Do not cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year. (4) Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury. (5) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control. (6) Do not apply this product to putting greens or areas where dichondra, colonial bentarass, velvet bentarass or annual bluegrass (Poa annua) are desirable species,

STORAGE AND DISPOSAL

STORAGE: Store this product in its original container in a dry, cool, secured area, Do not contaminate water, foodstuffs, feed, or seed by storage or disposal, PRODUCT DISPOSAL: As a responsible environmental practice, where possible, it is recommended that all of the contents of the bag be used, carefully following label directions and precautions.

CONTAINER HANDLING: Non-refillable 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.

CONDITIONS OF SALE AND WARRANTY (IMPORTANT: READ BEFORE USE)

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. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Mears Fertilizer, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Mears Fertilizer, Inc. makes no other warranties, 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 Mears Fertilizer, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law. Mears Fertilizer, Inc. disclaims any liability whatso ever for special. incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer 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 or at Mears Fertilizer, Inc's election, the replacement of product.

o In Virginia, this lawn fertilizer contains phosphorous and is only for non-agricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or renovated, and (iii) on turf where soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not for the routine maintenance of turf.

o Maryland application: The product being used in accordance with the recommended application rates established by the University of Maryland. Creeper', oisu', 'White

*Do not use on food producing trees, vines or plants. **Not for use on container grown plants.