

.37% Prodiamine Plus Fertilizer

FOR PREEMERGENCE CONTROL OF GRASS AND BROADLEAF WEEDS IN LAWNS AND ORNAMENTAL TURE

(excluding golf course putting greens)

LANDSCAPE ORNAMENTALS, ESTABLISHED PERENNIALS AND WILDFLOWER

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

ACTIVE INGREDIENT:

Prodiamine (CAS # 29091-21-2)	
OTHER INGREDIENTS:	<u>99.63%</u>
TOTAL	100.00%
EPA REG NO. 53883-172-69759	EPA EST. NO. 53883-172-69759-OR-0

EPA EST. NO. 53883-172-69759-OR-002

KEEP OUT OF REACH OF CHILDREN

CAUTION CAUTION

12-4-16

GUARANTEED ANALYSIS

8.76% Urea Nitrogen* 3.24% Water Insoluble Nitrogen** Available Phosphate (P₂0₅)......4.00% Soluble Potash (K₂O)......16.00%

Total Nitrogen (N)......12.00%

Calcium (Ca)......1.50% Derived from: Polymer Coated Sulfur Coated Urea, Mono-

ammonium Phosphate, Biosolids, Muriate of Potash, and

*2.40% Slow Release Urea Nitrogen for Polymer Coated **Sulfur Coated Urea**

3.24% Slowly Available Water Insoluble Nitrogen from **Biosolids

> Net Weight: 50LBS. Manufactured For: Marion Ag Service, Inc. 7746 St. Paul Hwy NE St. Paul. OR 97137

FIRST AID				
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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	Take off contaminated clothing.			
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 physician 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 the poison control center or physician.			
	Do not give anything by mouth to an unconscious person.			
IF INHALED:	Move person to fresh air.			
	If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.			
	Call a poison control center or doctor for further treatment advice.			
HOT LINE NUMBER				

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medica emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

PRECAUTIONARY STATEMENTS

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

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.

DIRECTION FOR USE

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

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

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 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); crowfoot-grass; 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

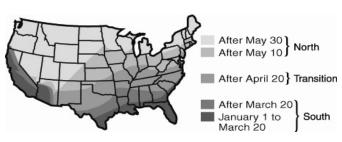
¹In many areas a single application of 3.2 to 9.3 pounds/1,000 square feet (144 to 405 pounds/ acre) will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained with an initial application of 3.2 to 6.2 pounds/1.000 square feet (144 to 270 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

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

Information regarding the contents and levels of metals in this product is available on the Internet at http://www.aapfco.org/metals.htm

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 irrigation 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 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)	2.7 lbs/1,000 sq. ft. (118 lbs/acre)	9.3 lbs/1,000 sq. ft. per year (405 lbs/acre per year)		
Buffalograss Kentucky Bluegrass Perennial Ryegrass Creeping Red Fescue	2.7 lbs/1,000 sq. ft. (118lbs/acre) 2.7 lbs/1,000 sq. ft. (118 lbs/acre)	6.2 lbs/1,000 sq. ft. per year (270 lbs/acre per year) 4.6 lbs/1,000 sq. ft. per year		
Creeping Bentgrass	2.7 lbs/1,000 sq. ft. (118 lbs/acre)	(202 lbs/acre per year) 4.0 lbs/1,000 sq. ft. per year (175 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 3.3 pounds/1,000 square feet (145 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 seguential 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)

USE RATE	MONTHS BEFORE OVERSEEDING		
	North	Transition	South
3 pounds/1,000 sq. ft. (135pounds/acre)	4	4	4
4 pounds/1,000 sq. ft. (175 pounds/acre)	5	4	4
4.6 pounds/1,000 sq. ft. (202 pounds/acre)	6	5	5
4.9 pounds/1.000 sq. ft. (215 pounds/acre)	-	6	6
6.2 pounds/1,000 sq. ft. (270 pounds/acre)	-	7	7
7 pounds/1,000 sq. ft. (308 pounds/acre)	-	-	9
8 pounds/1,000 sq. ft. (350 pounds/acre)	-	-	10
9.3 pounds/1,000 sq. ft. (405 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 2.7 to 9.3 pounds/1,000 square feet (118 to 405 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 9.3 pounds/1,000 square feet (405 pounds/acre) per year.

APPLICATION TIMING AND INFORMATION: This product may be applied to newly transplanted and established ornamentals as 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	COMMON NAME	
Abies spp.	Fir species** (Balsam, Frasier, Noble, etc.)	
Abelia grandflora	Abelia: Sherwood	
Acer palmatum	Japanese Maple	
A. Platanoides	Norway Maple	
Achillea spp.	Yarrow: King Edward	
Actinidia chinensis	Kiwi*	
Agapanthus africanus	Lily-of-the-Nile (African Lily)	
Agapanthus orientalis		
Akebia quintata	Five-leaf or Chocolate Vine	
Allium cemuum	Lady's Leek, Nodding Onion	
Anemone hybrida	Japanese Anenome	
Aquilegia spp.	Aquilegia: Red and Gold	
Arctostaphylos densiflora	Vine Hill Manzanita	
Arctotheca calendula	Cape Weed	
Artemesia 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 asteroides	Snowbank	
Buddleia davidii	Butterfly-Bush (Dwarf Blue); Royal Red	
Buxus microphylla	Japanese Boxwood	
Callistemon 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

Ceratostigma plumbagonoides

Ceanothus rigidus

Chamaecyparis pisifera False Cypress Cleyera japonica Clevera Citrus spp Citrus species*

Coreopsis spp. Coreopsis (Calliopsis) Early Sunrise, Moonbeam

Hawthorne

Wild Lilac

Cornus florida Flowering Dogwood C. Stolonifera American Dogwood Cortaderia selloana Pampas Grass

Cotoneaster apiculatus Cranberry Cotoneaste

C. buxifolius Cotoneaster

C. dammeri Bearberry Cotoneaster C. Microphyllus Rockspray Cotoneaster

Cretaegus spp. Crocosmia spp. Italian Cypress Cupressus sempervirens

White Trailing Ice Plant Delosperma alba

Delosperma spp Cooperi Pink Delphinium spp. Larkspur: Blue Elf

Dianthus deltoides Dianthus: Maiden Pinks "Zing"

D. gratianopolitanus Cheddar Pink Dodonea viscosa Hop Bush

Echinacea purpurea Coneflower, Purple; Magnus

Elaeagnus pungens Silverberry Wintercreeper Euonymus fortunei E. iaponica Evergreen Euonymus E. kiautschovica Spreading Euonymus Fatsia japonica Japanese Aralia Forsythia intermedia Border Forsythia Forsythia suspensa Weeping Forsythia F. viridissima Greenstem Forsythia

Gaillardia spp. Gaillardia, Blanket Flower: "Goblin"

Gardenia jasminoides Gardenia, Cape-Jasmine

Gaura spp.

Gentiana dahurica Gentian Geranium cinereum Cranesbill Gladiolus spp. Gladiolus species* Gypsophilia repens Baby's Breath Hedera helix English Ivv Hellanthemum spp Sunrose

Daylily: Aztec Gold, Stella de Oro, Tender Love Hemerocallis spp

American Holly

Hibiscus Rose of Sharon

Hibiscus spp Mallow: Disco Belle White

Hibiscus rosa-sinensis Chinese Hibiscus

Hosta plantaginea Hosta, Plantain Lily (Fragrant)

H. Sieboldiana Hosta, "Seersucker"

Houttuynia cordata var. variegata Hydrangea macrophylla Bigleaf Hydrangea

Ilex Bernyi Holly llex cornuta Chinese Holly crenata Japanese Holly

vomitoria Yaupon Holly, Schillings

Inula ensifolia

opaca

Iris ensata Sword-Leaved Iris; Jodlesong Iris siberica Siberian Iris: Cabernet Iris species*

Iris spp. Jasminium nudiflorum

Juniperus chinensis Chinese Juniper; Nick's Compact, Parsonnii

.L conferta Shore Juniper: Blue Pacific J. davurica Parsoni

J. horizontalis Creeping Juniper Walnut* Juglans spp.

Justicia brandegeana Shrimp Plant Crape Myrtle Lagerstromia indica

Lagerstromia indica X Fauriei Crape Myrtle: Tuscarora Lantana montevidensi Weeping Lantana Lavender: Munstead Lavender spp.

Leonopodium alpinum Edelweiss Amur Privet Ligustrum amurense

Ligustrum sinense Chinese Privet; Variegata

.. japonicum Japanese Privet . lucidum Glossy Privet (Waxleaf)

Lilium spp. Lily; Jazz

Liriope muscari Big Blue Lily, Silver Mound, Evergreen Giant

Liriope muscari var. variegata Liriope, Variegated Liriope spicata Liriope, Creeping Cardinal Flower, Indian Pink Lobelia Cardinalis

Lonicera japonica Japanese Honevsuckle L. tatarica Tatarian Honeysuckle

Burgundy Lorapetalum chinense

Lythrum spp Loosestrife; Modern Pink

Magnolia spp. Magnolia species* Maleophora luteola Ice Plant Malus spp. Crabapple

Miscanthus sinensis Yaku Jima, Silberfeder Nandina domestica Heavenly Bamboo Narcissus spp Narcissus species* Nerium oleande Oleande

Olive* Olea europaea Mondo Grass Ophiopogon japonicus

Omanthus heterohyllus Osmanthus (False Holly); Gulf Tide

Trailing African Daisy Osteospermum fruticosum Oxydendrum arboretum Sourwood Paeonia suffruticosa Tree Peony Fountain Grass (Dwarf)

Pennisetum setaceum Perovskia atriplicifolia

Persea americana

Photinia Fraseri Frasier's Photinia (Redtip) Physotegia Virginiana Dragonhead False: Vivid

Picea spp Spruce species** (Colorado Blue, Norway, etc.)

Pieris japonica Lily-of-the-Valley Bush Pinus brutia Calabrian Pine P. canariensis Canary Island Pine P. Elliottii Slash Pine P. halepensis Aleppo Pine P. nigra Austrian Pine P. palustrus Longleaf Pine P. radiata Monterey Pine o. strobus Eastern White Pine . sylvestris Scotch Pine

, taeda Loblolly Pine P. Thunbergiana Japanese Black Pine P. Virginiana Virginia Pine Pistachio spp. Pistachio* Pittosporum rhombifolium Queensland Pittosporum

P tobira Japanese Pittosporum Japanese Yew

Podocarpus macrophyllus Prunus laurocerasus **English Laurel**

Prunus spp. Almond, Apricot, Nectarine, Peach, Plum and Prune Douglas Fir**

Pyracantha coccinea Firethorn (Scarlet) P. fortuneana Firethorn

Pseudotsuga menziesii

P. koidzumii Firethorn Pyrus spp Bradford Pear spp Quercus Shumardi Oak, Shumard's Red

Quercus spp. Oak species Raphiolepsis indica Indian Hawthorne Raphiolensis umbellata Yedda Hawthorne

Rhododendror 'Coral Bells,' 'Formosa,' 'Hino-crimson,' 'PJM' (including Azalea) 'Delaware Valley White', 'Roseum Elegans

'Flame Creeper', 'Girard Crimson', 'Wakeiebisu',

'White Gumbo', 'George L. Tabor' Rosa banksiae Lady Bank's Rose

Rosmarinus officinalis Rosemary*

Rudbeckia spp. Black-Eyed Susan; Goldsturm

Santolina virens Santolina

Saxifraga spp. Saxifrage; Purple Dome Scabiosa spp. Pincushion Flowe

Sedum album Stonecrop

Sedum cauticola Stonecrop: Lidakense

Sedum dasyphyllum Stonecron

Sedum spurium Stonecrop; Dragon's Blood Spiraea bumalda Spirea; Anthony Waterer Syzygium paniculatum Australian Brushcherry

Taxus cuspidata Japanese Yew

T. media Yew Teucrium spp. Germander Thalictrum diptercarpum Meadow Rue Thuia occidentalis American Arborvitae Trachelospermum asiatum Star Jasmine Tsuga canadensis Canada Hemlock Tulipa spp. Tulip species

Veronica spp Veronica, Speedwell: Sunny Border

Japanese Viburnum

V. odoratissimum Sweet Viburnum Japanese Snowball . plicatum Canary Island Viburnum /. rigidum /. suspensum Arrowood Viburnum V. tinus Laurustinus V. trilobium Cranberry Bush V. wrightii Leatherleaf Viburnum Vinca major Greater Periwinkle Vinca Vinca Minor Common Periwinkle, Vinca Vitis spp.

Veigela florida Old Fashioned Weigela Yucca aloifolia Spanish Bayonet, Yucca

*Do not use on food producing trees, vines or plants

**Not for use on container grown plants.

Viburnum japonicum

Y. filametosa

STORAGE AND DISPOSAL

Adam's Needle, Yucca

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

Pesticide Storage: Store in original container in a dry place. Store in locked area out of reach of

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spilled bait, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for Guidance

Container Disposal: Non-refillable container. Do not reuse or refill this container. Empty container through use according to label instructions. Do not rinse unless required for recycling. Offer for recycling, if available. If recycling is not available; then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product 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 because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of Marion Ag Service, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Marion Ag Service, Inc. warrants that this product conforms to the chemical description on the label, and is reasonably fit for the purposes set forth in the DIRECTIONS FOR USE, when it is used in accordance with such directions, subject to the inherent risks mentioned above

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