PRODIAMINE GROUP 3 HERBICIDE



For selective preemergence control of grass and broadleaf weeds as listed in:

- established turfgrasses (excluding golf course putting greens) and lawns
- landscape ornamentals (including established perennials & wildflower plantings)

ACTIVE INGREDIENT:

Prodiamine		0.43%
OTHER INGREDIENTS:		99.57%
TOTAL:		100.00%
EPA Reg. No. 961-362	(L) EPA Est. No. 961-PA- Superscript used is first letter	(D) 01:961-IL-01 of lot number.

Barricade is a registered trademark of a Syngenta Group Company. ProScape® and MESA® are registered trademarks of Lebanon Seaboard Corporation.

READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT. USE ONLY ACCORDING TO LABEL INSTRUCTIONS.

Before buying this product, read the Warranty Section elsewhere on this label.

If terms are not acceptable, return the unopened container to the place of purchase at once.

KEEP OUT OF REACH OF CHILDREN

CAUTION 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 frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

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 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.					
Have the product container or	label with you when calling a poison control center or doctor, or going for treatment.					
You may also contact 888-208	3-1368 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 pre-sent 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. **If material is spilled:** Contain and sweep up material of spill for disposal or use per label instructions. Wash cleanup equipment to prevent contamination elsewhere. Excess quantities above normal application rates could result in damage to plants subject to spill. Water-in remainder, disc under, cover with layer of soil, or leave exposed to sunlight, as deemed appropriate to the situation.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants not listed on this label 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.

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

DIRECTIONS FOR USE

This product is a selective preemergence herbicide that provides residual control of many listed grass and broadleaf weeds in established turfgrasses (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 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 following application.

Not for use on plants being grown (1) for 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 this product through any type of irrigation system. **DO NOT** apply aerially.

DO NOT apply to golf course putting greens.

Manufactured by: Lebanon Seaboard Corporation 1600 E. Cumberland St. • Lebanon, PA 17042 800-233-0628 • (717) 273-1685 www.LebanonTurf.com



WEED RESISTANCE MANAGEMENT

For resistance management. Lebanon ProScape Fertilizer with Barricade 0.43% Preemergence Weed Control is a Group 3 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps: Rotate the use Lebanon ProScape Fertilizer with Barricade 0.43% Preemergence Weed Control or other Group 3 herbicides within a growing season with different herbicide groups that control the same weeds.

Adopt an integrated weed management program for herbicide use that includes scouting and uses historical information related to herbicide use, and that considers cultural, biological varieties and other turf management practices

Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (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. Prevent movement of resistant weed seeds to other areas by cleaning equipment.

If weed population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available Contact your sales representative, pest control advisors, or local extension specialist for additional pesticide resistance management and/or integrated weed management recommendations for specific types of plants and weed biotypes.

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 turfgrasses and lawns. The maximum amount of this product that may be applied per year is given for each turfgrass species in the Maximum Annual Rates section of this label. Most effective weed control in turfgrasses will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See the map below for approximate crabgrass seed germination dates



USE PRECAUTIONS

The following precautions apply to the use of this product in turfgrasses 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 to newly set sod until the following year.

Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury.

Disturbing the herbicide barrier with cultural practices such as discing may result in reduced weed control.

DO NOT apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (Poa annua) are desirable species

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 must 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 turfgrass 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 LEBANON PROSCAPE FERTILIZER WITH BARRICADE 0.43% PREEMERGENCE WEED CONTROL by Turfgrass Species¹⁾

Turf Species:	Lbs. Product/Acre	Lbs. Product/1,000 Sq. Ft.	Lbs. Al/Acre
Bermudagrass ²⁾ , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type), Zoysia	349	8.0	1.5
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	233	5.3	1.0
Creeping Red Fescue	175	4.0	0.75
Creeping Bentgrass	150	3.4	0.65

These are the maximum rates per calendar year by species limitations

²⁾ May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 121 lbs./Acre. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass and Rescue grass due to reduced product rates used in sprigging situations.

• DO NOT apply more than 349 lbs. of this product per calendar year.

• 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

In the states of MD, NJ, VA and WA apply this product at no more than 5.3 lbs. of product per 1,000 sq. ft.

WEEDS CONTROLLED

when used in accordance with this label	This product will provide control of the following we	eus.					
Barnyardgrass	Chickweed, Mouseear (from seed)	Foxtails, Annual	Johnsongrass (from seed)	Lambsquarters, Common	Purslane, Common	Speedwell, Persian	
Bluegrass, Annual (Poa annua)	Crabgrass (large, smooth)	Goosegrass ¹	Junglerice	Lovegrass	Pusley, Florida	Sprangletop	
Carpetweed	Crowfootgrass	Henbit	Knotweed	Panicum (Texas, Fall, Browntop)	Rescuegrass ³	Spurge, Prostrate	
Chickweed, Common	Cupgrass, Woolly	Itchgrass	Kochia	Pigweed	Shepherd's Purse ²	Witchgrass	
					Signalgrass Broadleaf	Woodsorrel Yellow (from seed)	

¹⁰ In many areas a single application of 150 to 349 lbs./Acre 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 150 to 233 lbs./Acre followed after 60 to 90 days by a second application at doses that would not exceed those given i the Maximum Annual Rate Table. DO NOT exceed the maximum rate for turfgrass species listed in the Maximum Annual Rate Table above

²⁾ Apply this product in late summer, fall, or winter prior to germination.

³⁾ Suppression only.

Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rates listed for each turf species. All applications must be made prior to germination of the weed seeds

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 seedings is likely if this product is applied before seeding 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 table below for best overseeding/reseeding results

LEBANON PROSCAPE FERTILIZER WITH BARRICADE 0.43%

PREEMERGENCE WEED	CONTROL Rate (Ib./A)	Months Before Overseeding		
Product	Á	North	Transition	South
116	.50	4	4	4
150	.66	5	4	4
175	.74	6	5	5
185	.80		6	6
233 265	1.00		7	7
265	1.14			9
302	1.30			10
349	1.50			12

LANDSCAPE ORNAMENTALS (including Established Perennials and Wildflower Plantings)

This product may be applied for residual preemergence weed control in ornamentals.

USE RATES

Apply this product at 150 to 349 lbs./Acre in fall and/or spring. Use higher rates of application for longer control periods. Sequential applications are to be made so long as the total amount of product applied does not exceed the maximum annual application rate of 349 lbs./Acre.

APPLICATION TIMING AND INFORMATION

This product is a preemergence 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 inches) mechanical incorporation, prior to weed seed germination and within 14 days following application.

Best weed control is obtained when this product is applied to soil free of clods, weeds, and debris such as leaves. Prior to application of this product, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.

ESTABLISHED LANDSCAPE ORNAMENTALS

Apply this product in the fall and/or spring 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 this product in the soil.

NEWLY TRANSPLANTED LANDSCAPE ORNAMENTALS

Apply this product in the fall and/or spring 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 this product 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.

TOLERANT ORNAMENTAL SPECIES

This product will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to this 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. Apply this product 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.

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

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store product in its original container in a cool, dry, locked place out of the reach of children and animals. PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. CONTAINER HANDLING: Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

WARRANTY

Grape*

Old Fashioned Weigela

Spanish Bayonet, Yucca Adam's Needle, Yucca

** Not for use on container grown plants.

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

NOTE: To the extent consistent with applicable law, Buyer assumes all responsibility for safety and performance if this product is not used according to the directions.