

ProScape®

LEBANON

FERTILIZER WITH BARRICADE 0.43% PREEMERGENCE WEED CONTROL

16-0-8 MESA®

GUARANTEED ANALYSIS

Total Nitrogen (N).....	16.0%
2.4% Ammoniacal Nitrogen	
1.4% Water Insoluble Nitrogen*	
9.7% Urea Nitrogen	
2.5% Other Water Soluble Nitrogen*	
Soluble Potash (K ₂ O).....	8.0%
Sulfur (S).....	2.8%
2.8% Combined Sulfur (S)	



F699 **22-54269**

i/18

Derived from: Ammonium Sulfate, Methylene Ureas, Urea, Muriate of Potash.
Chlorine (Cl) not more than..... 7.0%
*3.9% Slowly Available Nitrogen from Methylene Ureas.

Information regarding the contents and levels of metals in this product is available on the Internet at:
<http://www.regulatory-info-lebsea.com>

NOTE: Supplemental applications of lawn fertilizer are needed to achieve a minimum 1 lb. Nitrogen per 1,000 sq. ft.

SUGGESTED SPREADER SETTINGS			
Spreader	5.3#/1,000 sq. ft.	Spreader	5.3#/1,000 sq. ft.
LebanonTurf	5/4	Lesco (letter/Numeric)	K/22
Andersons AccuPro	0	PennMulch® HVO	N
Earthway Rotary	18	ProScape® SS	N
Gandy	30	Spyker	5/4
Lely	6 1/2"II	Vicon (all models)	30

These settings were calibrated and field tested. However, age and condition of spreader, speed of operation and evenness of terrain may require slightly different settings for desired coverage.

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

EPA Est. No. 961-PA-01:961-IL-01
Superscript used is first letter 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 888-208-1368 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 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.

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.



For technical assistance or more information about our products visit www.LebanonTurf.com

Manufactured by:
Lebanon Seaboard Corporation
1600 E. Cumberland St. • Lebanon, PA 17042

Made in the U.S.A.
www.LebanonTurf.com

NET WEIGHT **50** LBS. (22.7 KG)

FERTILIZER

WITH

BARRICADE 0.43%

PREEMERGENCE WEED CONTROL

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MESA®

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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 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.

APPLICATION DIRECTIONS

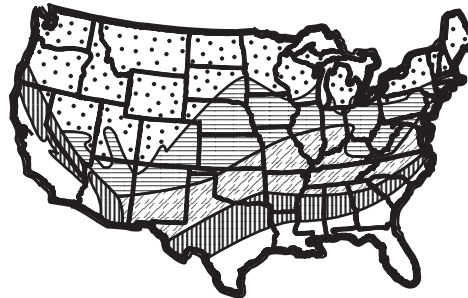
Apply uniformly with suitable, calibrated application equipment.

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.

**CRABGRASS SEED
GERMINATION DATES**



Approximate Date	
	After May 30
	After May 10
	After April 20
	After March 20
	January 1 to March 20

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

¹⁾ 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 weeds:

Barnyardgrass	Chickweed, Mouseear (from seed)	Foxtails, Annual	Johnsongrass (from seed)	Lambsquarter, Common	Purslane, Common	Speedwell, Persian
Bluegrass, Annual (<i>Poa annua</i>)	Crabgrass (large, smooth)	Goosegrass ¹⁾	Junglerice	Lovegrass	Pusley, Florida	Sprangletop
Carpentweed	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)

¹⁾ 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 in 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 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 table below for best overseeding/reseeding results.

LEBANON PROSCAPE FERTILIZER WITH BARRICADE 0.43%**PREEMERGENCE WEED CONTROL Rate (lb./A)**

Product	Al	Months Before Overseeding		South
		North	Transition	
116	.50	4	4	4
150	.66	5	4	4
175	.74	6	5	5
185	.80	---	6	6
233	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. Best results will be obtained when 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.

Fir species** (Balsam, Fraser, Noble, etc.)	Wild Lilac	Gladiolus species**	Glossy Privet (Waxleaf)	Monterey Pine	Pincushion Flower
Abelia: Sherwood	Ceratostigma plumbagonoides	Baby's Breath	Lily: Jazz	Japanese Black Pine	Stonecrop (<i>Thalictrum dipterocarpum</i>)
Japanese Maple	False Cypress	English Ivy	Big Blue Lily; Turf; Silver Mound;	Eastern White Pine	Stonecrop; Lidakense
Norway Maple	Chrysanthemum nipponicum	Sunrose	Evergreen Giant	Scotch Pine	Stonecrop (<i>Trachelospermum asiaticum</i>)
Yarrow: King Edward	Cleyera	Daylily: Aztec Gold, Stella De Oro,	Liriope, Variegated	Loblolly Pine	Stonecrop; Dragon's Blood
Kiwi*	Citrus species*	Tender Love	Liriope, Creeping	Virginia Pine	Spirea: Anthony Waterer
Lily-of-the-Nile (African Lily)	Coreopsis (Calliopsis): Early	Rose of Sharon**	Cardinal Flower, Indian Pink	Pistachio*	Australian Brushcherry
<i>Agapanthus orientalis</i>	Sunrise, Moonbeam	Mallow: Disco Belle White	Japanese Honeysuckle	Queensland Pittosporum	Japanese Yew
Five-Leaf or Chocolate Vine	Flowering Dogwood	Chinese Hibiscus	Tatarian Honeysuckle	Japanese Pittosporum	Yew
Lady's Leek, Nodding Onion	American Dogwood	American Dogwood	Burgundy	Japanese Yew	Germander
Japanese Anemone	Pampas Grass	Hosta, Plantain Lily (Fragrant)	Loosestrife; Modern Pink	English Laurel	Meadow Rue
Aquilegia: Red and Gold	Cranberry Cotoneaster	Hosta, "Seersucker"	Magnolia species**	Almond, Apricot, Nectarine, Peach, Plum	American Arborvitae
Vine Hill Manzanita	Cotoneaster	<i>Houttuynia cordata</i> var. <i>variegata</i>	Ice Plant	and Prune*	Star Jasmine
Cape Weed	Bearberry Cotoneaster	Bigleaf Hydrangea	Crabapple*	Douglas Fir**	Canada Hemlock
Wormwood; Silver Mound, Castle	Rockspray Cotoneaster	Holly	Yaku Jima, Silberfeder	Firethorn (Scarlet)	Tulip species
Aster: Bonny Blue, Purple Dome	Hawthorne	Chinese Holly	Heavenly Bamboo	Firethorn (<i>P. Fortuneana</i>)	Veronica, Speedwell; Sunny Border
<i>Aster X Frikartii</i>	Lucifer	American Holly	Narcissus species**	Firethorn (<i>P. Koidzumii</i>)	Japanese Viburnum
Lady Fern; Fern Lady	Italian Cypress	Yaupon Holly; Schillings	Oleander	Bradford Pear sp.	Sweet Viburnum
Japanese Aucuba	White Trailing Ice Plant	<i>Inula ensifolia</i>	Olive*	Oak, Shumard's Red	Japanese Snowball
Fibrous Begonia: Hardy Grandis	Cooperi Pink	Sword-Leaved Iris; Jodlesong	Mondo Grass	Oak species	Canary Island Viburnum
Barberry	Larkspur: Blue Elf	Siberian Iris; Cabernet	Osmanthus (False Holly): Gulf Tide	Indian Hawthorne	Arrowood Viburnum
Wintergreen Barberry	Dianthus; Maiden Pinks "Zing"	Iris species**	Trailing African Daisy	Yedda Hawthorn	Laurustinus
Mentor Barberry	Cheddar Pink	Winter Jasmine	Sourwood	'Coral Bells'	Cranberry Bush
Japanese Barberry	Hop Bush	Chinese Juniper; Nick's Compact,	Tree Peony	'Delaware Valley White'	Leatherleaf Viburnum
Warty Barberry	Coneflower, Purple; Magnus	Parsonii	Fountain Grass (Dwarf)	'Flame Creeper'	Greater Periwinkle, Vinca
<i>Bergenia cordifolia</i>	Silverberry	Shore Juniper; Blue Pacific	<i>Perovskia atriplicifolia</i>	'Formosa'	Common Periwinkle, Vinca
Snowbank	Wintercreeper	Parsoni	Avocado*	'Girard Crimson'	Grape*
Butterfly-Bush (Dwarf Blue);	Japanese Spindle Tree (Evergreen Euonymus)	Creeping Juniper	Frasier's Photinia (Redtip)	'George L. Tabor'	Old Fashioned Weigela
Royal Red	Spreading Euonymus	Walnut*	Dragonhead, False; Vivid	'Hino-crimson'	Spanish Bayonet, Yucca
Japanese Boxwood	Japanese Aralia	Shrimp Plant	Spruce species** (Colorado Blue,	'PJM'	Adam's Needle, Yucca
Weeping Bottlebrush	Border Forsythia	Crape Myrtle	Norway, etc.)	'Roseum Elegans'	
Scotch Heather	Weeping Forsythia	Crape Myrtle; Tuscarora	Lily-of-the-Valley Bush	'Wakeiebisu'	
Tussock Bellflower, (White Clips)	Greenstem Forsythia	Weeping Lantana	Calabrian Pine	'White Gumbo'	
Trumpet Creeper, Trumpet Flower,	Gaillardia, Blanket Flower: "Goblin"	Lavender; Munstead	Canary Island Pine	Lady Bank's Rose	
Madame Galen	Gardenia, Cape-Jasmine, Radicans	Edelweiss	Slash Pine	Rosemary*	
Hottentot Fig (Ice Plant)	<i>Gaura</i> sp.	Chinese Privet; Variegata	Aleppo Pine	Black-Eyed Susan; Goldstrum	
Feathery Cassia	Gentian	Amur Privet	Austrian Pine	Santolina	
	Cranesbill	Japanese Privet	Longleaf Pine	Saxifrage; Purple Dome	

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

NOTE: Supplemental applications of lawn fertilizer are needed to achieve a minimum of 1 pound nitrogen per 1,000 sq. ft.

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

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.