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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON DC 20450	EPA REGISTRATION NO. 901-362 TERM OF ISSUANCE	DATE OF ISSUANCE	
	CONOL - EXLIN	e <u>s: January 1, 1995</u> T	
NCTICE OF PESTICIDE: [] REGISTRATION [] REREGISTRATION (Under the Federal Insectiende, Fungicide, and Rodenticide Act, as amended)	Lebanon Fertilizer with Barricade [®] (0.43%) Preemergence Weed Control		
AME AND ADDRESS OF REGISTRANT (Include ZIP code)		·····	
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Lepanon Chemical Corporation P.O. Box 180			
Leoanon, Pennsylvania 17042			
L	L		
IOTE: Changes in labeling formula differing in substance fr submitted to and acce, *ed by the Registration Division prior roduct always refer to the above U.S. EPA registration num on the basis of information furnished by the registrant, the a he Federal Insecticide, Fungicide, and Rodenticide Act.	r to use of the label in commerce aber.	e. In any correspondence on this	
A copy of the labeling accepted in connection with this Reg	gistration/Reregistration is retu	rned herewith.	
Registration is in no way to be construed as an indorsement health and the environment, the Administrator, on his motior icide in accordance with the Act. The acceptance of all j nar Act is not to be construed as giving the registrant ε right to by others. This product is conditionally r	t or approval of this product by t n, may at any time suspend or ca me in connection with the regist o exclusive use of the name or to registered in accordant	his Agency. In order to protect ancel the registration of a pest- ration of a product under this b its use if it has been covered	
section $J(c)(7)(C)$ provided that you	1:		
 Submit nitrosamine data to f a discussion of the formatic Regulations, <u>40</u>: section 107 of this Notice. 	on of inpurities (Code	or Federal	
 And the phrase "EPP Registration period period produces and the produces of the submit five (5) copies of the product of the submit five (5) copies of the product period p	act for snipment.		
you release the product for			
and provided that Sandoz Agro, Inc., ingreatent of this product, submits the registration of prodiamine as li	the required data to	continue	
If these conditions are not comp subject to canceliation in accordance for snipment of the product constitu- A stamped copy of the label is enclo	ce with FIFRA section ates acceptance of the	6(e). Your release ese conditions.	
	anne I. Miller		
Enclosure Fur	ocuct Manager (23) ngicide—Herbicide Brar qistration Division (F		
ATTACHMENT IS APPLICABLE	g	, , , , , , , , , , , , , , , , , , , ,	
		DATE /	
IGNATURE OF APPROVING OFFICIAL	A Post	KAT IGO2	

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LB. NET WEIGHT (Kg)

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LEBANON FERTILIZER WITH BARRICADE

PREEMERGENCE WEED CONTROL

FERTILIZER ANALYSIS

Nitrogen (N)	32%
Ammoniacal Nitrogen 4.0%	
Urea Nitrogen	
Available Phophoric Acid (P_2O_5)	4%
Soluble Potash (K ₂ O)	6%

Nutrient Sources: Urea, Nitroform, Monoammonium Phosphate, Muriate of Potash.

Active Ingredient:

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*Prodiamine [N ³ , N ³ , -Di- <u>n</u> -propyl-2, -	4-dinitro-6-(trifluorometh	yl)
-m-phenylenediamine]	******	
Inert Ingredients		
Total		
	(L)	in ZPA Letter Dated (D)
EPA Reg No. 961-	EPA Est. 961-PA-01	:961-IL-01 - 01- 0000
-		
	of Lot Number.	Under the Federal Insects and Fungicide, and Rodenticide:Act
*Barricada, is the registered tradema		as amended, moristered under EPA Reg. No.

Barricade is the registered trademark for Sandoz Ltd.

For selective preemergence control of grass and broadleaf weeds in established turf grasses and landscape ornamentals.

Keep Out of Reach of Children CAUTION

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

> Lebanon Chemical Corporation Lebanon, PA

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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.

Statements Of Practical Treatment

If in eyes: Flush thoroughly with water for several minutes. Get medical attention if irritation persists.

If on skin: Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists.

If inhaled: Remove victim to fresh air.

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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 area may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

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STORAGE AND DISPOSAL

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

STORAGE

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Store in original container away from other fertilizer, feed, or food stuffs and separated from ot' the pesticides.

PES IDE DISPOSAL

Wast asulting from the use of this product may be disposed of on site or at an appr d waste disposal facility.

CONTAINER DISPOSAL

<u>Plastic Containers:</u> - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or; puncture and dispose of in a sanitary landfill or at an incineration facility, or; if allowed by state and local authorities, by burning locally. If burned, stay out of smoke.

<u>Paper and Plastic Containers:</u> - Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or at an incineration facility, or; if allowed by state or local authorities, by burning locally. If burned, stay out of smoke.

<u>Fiber Drums:</u> - Completely empty lir er by shaking or tapping sides and bottom to loosen clinging particles. Empty residues into application equipment. Dispose of empty liner in a sanitary landfill or at an incineration facility, if allowed by state and local authorities. If the drum can not be reused, dispose in a sanitary landfill or by incineration if allowed by state and local authorities.

DIRECTION 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 turf grasses and landscapes. This product controls susceptible weeds by inhibiting weed seeds germination and root development. For most effective weed control this product must be incorporated by 1/2 inch of rainfall, irrigation or shallow mechanical incorporation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application.

Do not apply this product through any type of irrigation system. Do not apply aerially.

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Application Directions

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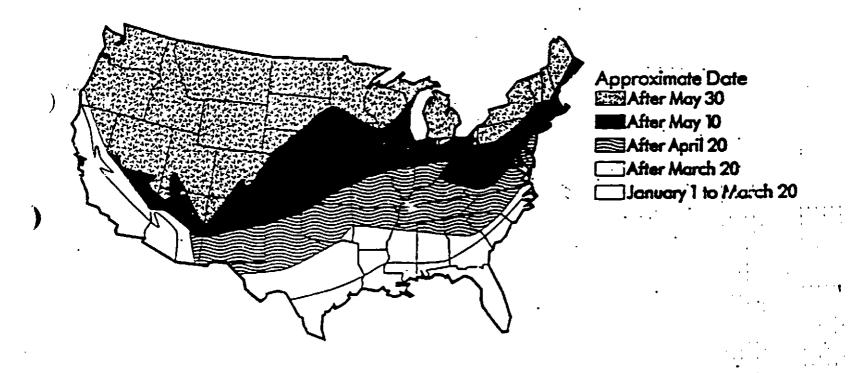
Apply uniformly through suitable, calibrated commercial application equipment.

ESTABLISHED TUPF

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established grass turf. The species of turf grass determines the maximum amount of material that may be applied during a year.

Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

CRABGRASS SEED GERMINATION DATES



Foxtails (yellow, green) tend to germinate before crabgrass; therefore, if targeting foxtails apply this product three (3) weeks before the corresponding crabgrass germination date.

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Use Precautions

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The following use precautions apply to the use of this product in turf grasses:

Application of this product may thin emerged annual bluegrass and newly over-seeded grasses.

Do not apply to FALL SEEDED TURF until the following spring, and only after the second mowing.

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Do not apply to SPRING SEEDED TURF or 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.

Do not apply this product to tees or greens, or to areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (<u>Poa annua</u>) are desirable species.

Maximum Annual Rates

This product should not be applied above a maximum annual rate of 350 lbs./acre or 1.5 lbs. active ingredient per acre.

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Turf Species and Rates

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For season long control this product may be applied as a single application, or if needed followed by a second application for increased length of control. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rate within the listed range for longer control. Longer control is desirable in areas where crabgrass germinates between January 1 and April 20 (See Crabgrass Seed Germination Data Map).

Select maximum use rate based on turf grass species. All applications must be made prior to germination of the target weed seeds.

The rates listed in the table below are for weed control of approximately 2-6 months.

Turf Species and Rates Table:

Turf Species:	Lbs./Acre	Lbs./1000 Sq. Ft.		
Bermudagrass Centipedegrass Seashore Paspalum Tall Fescue Zoysia	75 - 3 ` 50	1.7 - 8.0	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Perennial Bluegrass Perennial Ryegrass	75 - 232	1.7 - 5.3		, , , , , , , , , , , , , , , , , , ,
Creeping Red Fescue St. Augustinegrass	75 - 172	1.7 - 4.0) , 'j , i b , i j t	
Creeping Bentgrass min. 1/2 inch height	75 - 154	1.7 -'3.5		
Bermudagrass newly sprigged or plugged ¹	75 - 12 ⁻ 1	1.7 - 2.8		

Minimum And Maximum Rate Of This Product Per Calendar Year

¹ Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates.

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- Do not apply more than 175 lbs. of this product per application.
- Do not make more than 2 applications per calendar year.
- Do not apply more than 350 lbs. of this product per calender year.
- If making two applications, wait at least 60 days after the 1st application before making a second application.
- Use higher rates of this product to achieve higher levels of fertility and weed control for each turf type.

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Weeds Controlled

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When used at the recommended rates (see Turf Species and Rates Taole) this product will control:

Annual Bluegrass Common Chickweed¹ Crabgrass (Large, Smooth) Foxtails (Yellow, Green) Goosegrass² Henbit Knotweed Oxalis Prostrate Spurge Rescuegrass³ Shepardspurse¹

¹ Fall Application.

² For the best control of goosegrass apply 175 lbs. / A. Sixty (60) days later make a ² second application with 58 to 175 lbs./A of product (see information in Turf Species and Rates section above).

³ Suppression only.

Overseeding / Reseeding

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This product will inhibit the germination of turf species if overseeded/reseeded too soon after application. The interva! between application and overseeding/reseeding is dependent on the application rate, soil temperature, and soil moisture. A shorter interval is possible if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry.

Use the Overseeding/Reseeding Intervals Table below as a guide when choosing the appi priate overseeding/reseeding interval for each situation.

Overseeding/Reseeding Intervals Table:

Overseeding/Reseeding Interval (months) Based Upon Seeding Method and Predominate Soil Conditions for the Season 1,1%

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Product Rate	Broadcast Seeding		Drill Seeding	
	Wet & Warm	Cool & Dry	Wet & Warm	Cool & Dry
75 - 116	4	6	3	4
121 - 233	8	12	6	8
237 - 350	12	18	9	12

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LANDSCAPE ORNAMENTALS

This product herbicide will not harm most established ornamental trees, shrubs and flowers when applied to surrounding areas in accordance to the directions given in the Turf Species and Rates section. The following species have shown tolerance to Barricade.

Scientific Name

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Acer Palmatum A. platanoides Actinidia chinensis Agapanthus africanus Arctostaphylos densiflora Arctotheca calendula Aucuba japonica Barberis gladwynensis B. julianae B. mentorensis B. thunbergii B. verruculosa Buxus microphylla Callistemon viminalis Calluna vulgaris Carpobrotus edulis Cassia artemisoides Ceanothus rigidus Chamaecyparis pisifera Cleyeta japonica Cornus florida C. stolonifera Cortaderia selloana Cotoneaster apiculatus C. buxifolius C. dammeri C. microphyllus Cupressus sempervirens Delasperma alba Dodonea viscosa Elaeagnus pungens Euonymus fortunei

Common Name

Japanese Maple Norway Maple Kiwi* Lily-of-the-Nile Vine Hill Manzanita Cape Weed Japanese Aucuba

Wintergreen Barberry Mentor Barberry Japanese Barberry Warty Barberry Japanese Boxwood Weepine Bottlebrush Scotch Heather Hottentot Fig (Ice Plant) Feathery Cassia Wild Lilac False Cypress Clevera Flowering Dogwood American Dogwood Pampas Grass Cranberry Cotoneaster

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Bearberry Cotoneaster Rockspray Cotoneaster Italian Cypress White Trailing Ice Plant Hop Bush Silverberry Wintercreeper

*Ornamental species only. Do not use on food producing trees or vines.

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Scientific Name

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E. japonica E. kiautschovica Fatsia japonica Forsythia intermedia F. viridissima Gardenia jasminoides Hedera helix Hibiscus rosa-sinensis llex comuta I. crenata I. opaca I. pernyi Jasminium nudiflorum Juniparus chi insis J. conferta J. horizontalis Jugians sp. Justicia brandegeana Lagerstromia indica Ligustrum amurense L. japonicum L. lucidum Liriope muscari Lonicera japonica L. tatarica Maleophora luteola Malus sp. Nandina domestica Olea europa Ophiopogon japonicus Osteospermum fruiticosum Oxydendrum arboreum Persea americana Photinia fraseri Picae abies Pieris japonica

Common Name

Evergreen Euonymus Spreading Euonymus Japanese Aralia **Border Forsythia** Groenstem Forsythia Gardonia, Cape-Jasmine English ivv Chinese Hibiscus Chinese Holly Japanese Holly American Holly Winter Jasmine Chinese Juniper Shore Juniper Creeping Juniper Walnut * Shrimp Plant Crepe Myrtle Amur Privet Japanese Privet **Glossy Privet Big Blue Lily Turf** Japanese Honeysuckle Tatarian Honeysuckle ice Plant Crabapple* Heavenly Bamboo Olive* Mondo Grass Trailing African Daisy Sourwood Avocado* Frasier's Photinia 🔒 Norway Spruce Lily-of-the-Valley Shrub

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"Ornamental species only. Do not use on food producing trees or vines.

Scientific Name

Pinus brutia P. canariensis P. halepensis P. nigra P. radiata P. thunbergiana P. strobus P. sylvestris Pistachio sp. Pittosprorum rhombifolium P. tobira Podacarpus macrophyllus Prunus laurocerasus Prunus sp.

Pyracantha coccinea P. fortuneana P. koidzumii Pyrus sp. Quercus rubra Raphiolepis indica Rhododendron (including Azalea)

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Rosa banksiae Rosemarinus officinalis Santolina virens Sedum album Syzygium paniculatum Taxus Cuspidata T. media Thuja occidentalis Trachelospermum asiatum Tsuga canadensis Viburnum japonicum V. odoratissimum

Common Name

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Calabrian Pine **Canary Island Pine** Aleppo Pine Austrian Black Pine **Monterey Pine Japanese Black Pine** Eastern White Pine Scotch Pine Pistachio* **Queensland Pittosporum** Mock Orange Japanese Yew **English Laurel** Almond, Apricot, Nectarine, Peach, Plum and Prune* Firethorn Firethorn Firethorn Bradford Pear sp. **Red Oak** Indian Hawthorn 'Coral Bells' 'Formosa' 'Hino-crimson' 'PJM' 'Roseum Elegans' Lady Bank's Rose Rosemary Stonecrop

Japanese Boxcherry Japanese Yew Yew American Aborvitae Star Jasmine Canada Hemlock Japanense Viburnum Sweet Viburnum

*Ornamental species only. Do not use on food producing trees or vines.

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Scientific Name

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V. plicatum V. rigidum V. tinus V. trilobium V. wrightii Vinca minor Vitis sp. Weigela florida Yucca aloifolia Y. filamentosa

Common Name

Japanese Snowball Canary Island Viburnum Laurustinus Cranberry Bush

Dwarf Perwinkle Grape* Old Fashioned Weigela Spanish Bayonet Yucca, Adam's Needle

* Ornamental tree species only - not for use on food producing trees or vines.



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LIMITED WARRANTY AND LIMITATION OF LIABILITY

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NOTICE. Read this Limitation of Warranty and imitation of Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

It is impossible to eliminate all risks inherently 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 Lebanon Chemical Corporation or seller. All such risks shall be assumed by buyer or user.

Lebanon Chemical Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose stated in the Directions of Use, under normal conditions, subject to the risks described above. LEBANON CHEMICAL CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR CF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. In no event shall Lebanon Chemical Corporation or seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product.

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Lebanon Chemical Corporation offer this product, and buyer and user accept it, subject to the foregoing limitations of warranty and limitation of liability, which may not be modified by any oral or written agreement.

LEBANON TURF PRODUCTS P.O. BOX 180 LEBANON, PA 17042

Lebenon Turf Products is a division of Lebenon Chemical Corporation.

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