



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
9198-151

Date of Issuance:
MAY 20 1997

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Lawn Primo F

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

The Andersons Lawn Fertilizer Division
d/b/a Free Flow Fertilizer
P.O. Box 119
Maumee, OH 43537

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Fulfill any data gap(s) that may be cited in the product chemistry data that was originally submitted for this product.

3. Make the following label changes before you release the product for shipment:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 9198-151".

b. Revise the oral statement in the Statement of Practical Treatment to read "If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting."

c. Delete the Note to Physician that appears at the end of the Statement of Practical Treatment.

Signature of Approving Official:

Date:

MAY 20 1997

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- d. Revise the product name where it appears in the Use Precautions section so that it reads "Lawn Primo F".
- e. Add the prohibition "Do not apply this product through any type of irrigation system" to the commercial copy of the labeling.

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller
 Product Manager (23)
 Herbicide Branch
 Registration Division (7505C)

Enclosure

DK:305-7546: HB/PM 23

CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	D. KENNY							
DATE ▶	5/19/97							

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(FRONT PANEL)

LAWN PRIMO F

ACTIVE INGREDIENT:

4- (cyclopropyl-a-hydroxy-methylene)-3,5-dioxo-cyclohexanecarboxylic acid ethyl ester(0.01% - 1.00%)*

INERT INGREDIENTS:(99.99% - 99.00%)*

Total 100.00%

Primo™ is a registered trademark of Novartis Crop Protection, Inc.

*Note: The level of active ingredient and inert ingredients will vary within the range specified by the Confidential Statement of Formula.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

NET WEIGHT__LBS.

TREATS UP TO_____SQ. FT.

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

MAY 20 1997

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.**

9198-151

EPA Reg. No. 9198-

EPA Est. No. 9198-OH-1

EPA REC'D 5/16/97

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(BACK PANEL)

Net Weight ___ Lbs.

Treats Up To ___ Sq. Ft.

LAWN PRIMO F

Guaranteed Analysis	
Total Nitrogen (N)	8%
Available Phosphate (P ₂ O ₅)	1%
Soluble Potash (K ₂ O)	1%
Plant Nutrients Derived From: Ammonium Phosphate, Muriate of Potash, Urea	

KEEP OUT OF REACH OF CHILDREN

CAUTION

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Causes eye irritation. Do not get in eyes. Harmful if swallowed or absorbed through skin. Avoid contact with skin or clothing.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water. Get medical attention.

If swallowed: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, or gelatin solution; or if these are not available, drink large quantities of water. Never give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Call a physician if irritation persists.

Note to Physician: If ingested, lavage stomach with care to prevent aspiration of stomach contents. An aqueous suspension of activated charcoal can be given to absorb remaining toxicant.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

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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.

Read entire label before using this product. **FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN UNEVEN GROWTH REDUCTION OR SEVERELY STUNTED TURF.**

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes. For outdoor use on commercial turf such as residential lawns, golf courses, cemeteries, parks, athletic fields, institutional and school turf areas.

General Information

Lawn Primo F is a unique granular formulation of Primo[®], the turf growth regulator product, that allows low level fertilization to be applied at the same the growth rate is being regulated. Extensive field testing has indicated that these two operations are complementary, when applied as directed. The fertilizer in this product enhances the performance of the growth regulator at the same time it contributes to the color and density of the turf, working in harmony with the active ingredient. This product allows golf course operators, commercial turf managers, and lawn care companies to reduce the frequency of mowing and the amount of grass clippings by approximately 50% over a four week period.

A quality turf stand means the grass is actively growing, but a high growth rate can be difficult and costly to manage. The use of Lawn Primo F is valuable in many ways, such as the following:

- Whenever a granular application is preferred over applications of a liquid growth regulator product
- When mowing operations conflict with uses such as frequent golf play, athletic events, or other outdoor events of extended duration
- During times of undesirable heavy grass growth, such as Spring, when frequent rains limit the opportunity for mowing
- On steeply sloped ground
- In areas under air pollution restrictions which restrict mowing
- As a "green edger," in lawn border areas
- Around mowing obstacles, such as fences, trees and shrubs, monuments and markers
- Whenever mowing crews or equipment are unavailable
- To reduce mowing labor and equipment maintenance expenses

The active ingredient in Lawn Primo F is time-tested by years of extensive use on golf courses and by commercial lawn maintenance/mowing companies. The proper use of Lawn Primo F offers the following benefits:

- About half as much clipping volume to collect and recycle
 - Allows for a longer interval between mowings
 - Redirects grass growth energy into roots and shoots, frequently improving turf density and durability
 - Frequently reduces watering requirements
 - Frequently increases density, color, traffic resistance, and quality of the turf
 - Will not harm neighboring plantings
 - Seed germination is not affected
 - Doesn't kill the grass or other plants like other chemical edger products
- Watering in is not required

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Application Information

Environmental conditions, management, and cultural practices that affect turf growth and vigor will influence the response of the turf to Lawn Primo F applications. Fertility level, moisture availability, leaf wetness at the time of application, plant vigor, height, and frequency of mowing, etc. have been shown to influence the activity of Lawn Primo F.

The rates presented in the **Application Rate Table** provide approximately 50% growth inhibition over a 4-week period with little or no discoloration of turf growing under favorable conditions.

Excessive turf growth, which may occur under high fertilization program or during spring flushes, may require higher rates of Lawn Primo F. Under these conditions, Lawn Primo F rates may have to be increased up to 50% to provide an adequate length of control.

Lawn Primo F use rates may need to be reduced up to 50% for turfgrass grown under conditions of low fertility, compaction, or other factors which stress the turf.

Adjust your fertilization program to account for the fertilizer applied as a part of this product.

Multiple applications can be made each growing season but do not exceed a total of {XX.X} pounds per 1000 sq. ft. (2.5 lb. A/A) per year.

Mowing

Generally, Lawn Primo F provides more suppression when turfgrasses are mowed at lower mowing heights than higher mowing heights. Application rates have been selected for typical mowing heights. The application rate may need to be adjusted depending on actual mowing conditions. **It is suggested that Lawn Primo F not be applied less than 24 hours before or 4 hours after mowing to minimize mower pickup problems or any potential turfgrass injury.** Do not mow so low as to "scalp" the turf, exposing lighter-colored crown tissue, and do not remove more than about 1/3 of the leaf height when mowing. For lawns, raise mowing height when turf undergoes stress or enters dormancy due to heat or drought.

Application Timing

Apply Lawn Primo F to actively growing turf. Reduce Lawn Primo F rates on turf going into dormancy due to high or low temperatures or lack of moisture. Repeat applications of Lawn Primo F may be made as soon as the turf resumes growth or more suppression is desired. For best results, avoid application by broadcast spreaders under windy conditions, which may cause misapplication due to distortion of the application swath. **For best results, apply when the turf is wet from dew or irrigation.**

Equipment

Apply Lawn Primo F evenly, using the recommended rates and equipment capable of proper application of this product. Use only equipment designed for application of granular pesticides which has been properly calibrated and which is in good working order. Avoid skips and excessive overapplications as poor growth regulation or turfgrass injury may occur. See spreader settings table for recommended spreaders and settings. For use only as a "green edger," a drop spreader is most efficient. If a broadcast spreader is used, center the heaviest part of the swath over the lawn border area.

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Application Near and Around Monuments and Hardscape Materials

Lawn Primo F may stain or discolor stain brass, bronze, concrete, marble, granite, or other types of stone due to the fertilizer. Before using Lawn Primo F around these or other types of stone, test on a small scale basis first.

Poa annua Conversion/Renovation

Lawn Primo F can be applied to existing turf infested with stands of Poa annua as part of an overseeding/renovation program. Such an application allows better germination and seeding growth of more desirable turf. Lawn Primo F, in conjunction with the use of appropriate cultural practices that help to ensure the vigor and growth of new seedlings, will also result in fewer clippings and thus, less maintenance traffic on new seedlings. Since Lawn Primo F is foliarly absorbed, seed germination is not affected. Apply Lawn Primo F 1-5 days before seeding; and before verticutting, scalping, spiking, or other similar operations.

Temporary initial discoloration is possible with aggressive application rates of Lawn Primo F to turf with Poa annua. Lawn Primo F applications the following spring should use the upper end rate for the turf type and setting listed in the Application Rate Table. Actual conversion success will also depend on growing conditions, fertilization, rainfall, and other agronomic and environmental conditions.

Bermudagrass Overseeding

An application of Lawn Primo F to bermudagrass will enhance the establishment of cool-season turfgrasses. Lawn Primo F, in conjunction with the use of cultural practices that help ensure new seedling vigor and growth, will also result in fewer clippings and less maintenance traffic on new seedlings. Lawn Primo F is foliarly absorbed, so germination and seedling growth is not affected.

Apply Lawn Primo F before verticutting, scalping, spiking, or other similar operations to the bermudagrass. Apply Lawn Primo F 1-5 days before seeding.

Temporary initial discoloration is possible with aggressive application rates of Lawn Primo F. Use normal seeding rates for your area and turf setting (lawn, fairway, etc.). Actual overseeding success will also depend on growing conditions, fertilization, rainfall, and other agronomic and environmental conditions. For maintenance application, see the Application Rate Table.

Notes: (1) Do not apply to bare ground since Lawn Primo F is foliarly absorbed. (2) Areas treated with Lawn Primo F should continue to receive regular maintenance practices, including irrigation, fertilization, and weed, disease, and insect control when necessary and as recommended for quality turf. Since some herbicides can injure turf, herbicide application within 24 hours of applying this product should first be tested on a small scale before widespread use. (3) Lawn Primo F may cause temporary yellowing. To minimize yellowing and to enhance the green color of turf, apply readily available nitrogen at 0.2-0.5 lb. of nitrogen per 1,000 square feet. If desirable, recommended rates of iron can also be used. (4) Full growth regulation by Lawn Primo F begins at about 3-5 days after application.

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APPLICATION RATE TABLE

(See attached Table 1)

Use Precautions

Be sure the lawn has adequate fertility before using Lawn Primo G. For best results, avoid excessive traffic on the treated area for 24 hours following application, do no water Lawn Primo G in, and avoid application just before a rainfall. Avoid applications when grass is under stress or enters dormancy from heat or drought to prevent yellowing. Do not graze treated areas or feed clippings to livestock.

Notice to Users: Plant tolerances to Lawn Primo G have been found to be acceptable for the grasses listed on this label. Due to the large number of species and cultivars it is impossible to test everyone for tolerance to Lawn Primo G. Neither the manufacturer nor the seller has determined whether or not Lawn Primo G can be used safely on grasses not specified on this label. The professional user should determine if Lawn Primo G can be used safely prior to commercial use. Before using Lawn Primo G for grasses not listed in the application table, test Lawn Primo G on a small scale first. Apply the lower recommended rate for the turf setting (Lawn, fairway, etc.) and evaluate for phytotoxicity and growth inhibition prior to widespread use.

SUGGESTED SPREADER SETTINGS

(Available at Final Printing)

Note: The above spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. It is recommended that all spreader equipment be calibrated at the time of application to achieve the desired application rate.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. Keep container closed and away from food, feedstuffs and domestic water supplies. **PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide 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:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

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MANUFACTURERS STATEMENT

This product conforms to the ingredient statement on the label. Manufacturer's directions regarding use of this product are based upon tests believed to be reliable. All statements made concerning this product apply only when used as directed under normal use conditions. FOLLOW DIRECTIONS CAREFULLY. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the manufacturer. Buyer assumes all risks of use, storage and handling of this product.

THIS PRODUCT IS SOLD AS IS. MANUFACTURER MAKES NO WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.

**Manufactured By:
THE ANDERSONS LAWN FERTILIZER DIVISION
D/B/A FREE FLOW FERTILIZER
P.O. BOX 119
MAUMEE, OH 43537**

Date Printed: 04/11/97
Date Approved:
Supersedes:
Label Change:
Filename: prmlbfc.doc

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Table 1. Recommended Application Rates

Lawn Primo F Granular Application Rates^{1,2}

	Residential and Commercial Turf ³				Golf Course Fairways (cut at .5 inch or less)				Golf Course Greens				Edging/Banding ⁴				
	Low Rate		High Rate		Low Rate		High Rate		Low Rate		High Rate		Low Rate		High Rate		
	lb. ai/A	lb. Primo	lb. ai/A	lb. Primo	lb. ai/A	lb. Primo	lb. ai/A	lb. Primo	lb. ai/A	lb. Primo	lb. ai/A	lb. Primo	lb. ai/A	lb. Primo	lb. ai/A	lb. Primo	
Cool-Season⁷																	
Bentgrass	.26	X.X	.34	X.X	.09	X.X	.12	X.X	.05	X.X	.07	X.X	.34	X.X	.44	X.X	
Fescue, Red	.26	X.X	.34	X.X									.34	X.X	.44	X.X	
Fescue, Tall (Ky-31)	.34	X.X	.44	X.X									.34	X.X	.44	X.X	
Fescue, Tall (Turf Types)	.26	X.X	.34	X.X									.34	X.X	.44	X.X	
Kentucky Bluegrass	.26	X.X	.34	X.X	.09	X.X	.12	X.X					.26	X.X	.34	X.X	
Mixture (Bentgrass/Poa annua)					.09	X.X ⁵	.12	X.X	.05	X.X ⁶	.07	X.X					
Mixture (K. Bluegrass/Fescue, Ryegrass)	.26	X.X	.34	X.X													
Mixture (K. Bluegrass/Ryegrass/Poa annua)					.17	X.X ⁵	.26	X.X									
Ryegrass, Annual	.34	X.X	.44	X.X									.34	X.X	.44	X.X	
Ryegrass, Perennial	.34	X.X	.44	X.X	.17	X.X	.26	X.X					.34	X.X	.44	X.X	
Warm-Season⁸																	
Bahiagrass	.34	X.X	.44	X.X									.34-.68	X.X - X.X	.44-.88	X.X - X.X	
Bermudagrass ⁶																	
Bermudagrass, Common	.26	X.X	.34	X.X	.09	X.X	.12	X.X					.34-.68	X.X - X.X	.44-.88	X.X - X.X	
Bermudagrass, Other Hybrids	.09	X.X	.12	X.X	.07	X.X	.09	X.X					.17-.26	X.X - X.X	.26-.34	X.X - X.X	
Bermudagrass, Tifdwarf	.07	X.X	.09	X.X	.07	X.X	.09	X.X	.02	X.X	.03	X.X	.17-.26	X.X - X.X	.26-.34	X.X - X.X	
Bermudagrass, Tifgreen (328)	.09	X.X	.12	X.X	.07	X.X	.09	X.X	.05	X.X	.07	X.X	.26	X.X	.34	X.X	
Bermudagrass, Tifway (419)	.13	X.X	.17	X.X	.09	X.X	.12	X.X					.26	X.X	.34	X.X	
Buffalograss	.34	X.X	.44	X.X				X.X					.34	X.X	.44	X.X	
Carpetgrass	.09-.14	X.X - X.X	.12-.18	X.X - X.X									.17	X.X	.26	X.X	
Centipedegrass	.17	X.X	.26	X.X									.34	X.X	.44	X.X	
Kikuyugrass	.10-.17	X.X - X.X	.13-.22	X.X - X.X	.10	X.X	.13	X.X					.34	X.X	.44	X.X	
St. Augustinegrass	.09-.13	X.X - X.X	.12-.17	X.X - X.X									.34-.68	X.X - X.X	.44-.88	X.X - X.X	
St. Augustinegrass, Texas Common	.09	X.X	.12	X.X											.26	X.X	
Zoysiagrass	.09	X.X	.12	X.X	.05	X.X	.07	X.X					.26	X.X	.34	X.X	

¹These rates should provide 50% suppression of turf growth under good growing conditions for 4 weeks with minimal yellowing

²Seedheads: At rates equal to or higher than the rates below, Lawn Primo F provides seedhead suppression of hybrid bermudagrass, and partial seedhead suppression of annual bluegrass, bahiagrass, buffalograss, carpetgrass, common bermuda grass, Kentucky bluegrass, and tall fescue. Lawn Primo F must be applied prior to seedhead formation.

³Including, but not limited to, home lawns, parks, recreation areas, golf course roughs, cemeteries, business sites, and sports fields.

⁴For Poa annua conversion/renovation, where temporary discoloration can be tolerated, 1.5 times this rate may be applied. Repeat applications of Lawn Primo F may be made as soon as the turf resumes growth or more suppression is desired.

⁵Where yellowing of poa annua is a concern, use half this rate and apply more frequently.

⁶Bermudagrass overseeding preparation: {X.X (.22 lb ai/A)} to {X.X (.28 lb ai/A)}

⁷Northern "Cool-Season" Turf: The best time to apply is in the Spring, beginning mid April through early May. Best Growth regulation begins 3-5 days after the first application. Wait four weeks between any subsequent applications, and discontinue use before the onset of hot weather when the grass growth rate normally slows down on its own. Applications in the Fall can be used, again every four weeks until the grass growth normally slows down with the onset of cool weather.

⁸Southern "Warm-Season" Turf: The best time to apply is Spring through Fall, beginning about one month after grass breaks dormancy. Wait four weeks before making subsequent applications as desired, discontinuing use with the onset of cooler weather, about one month before turf goes dormant.

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