

DOCUMENT SCAN CONTROL SHEET

Document ID 510272

FERTILIZER ANALYSIS: 20-5-10

EPA # 34704-776

EPA #
For SLN

Product SIGNATURE CRABGRASS PREVENTER WITH BARRICADE .375%
Name PLUS (VAR. FERT. BLENDS)

Accepted
Date 2/23/2007

Document
Type PRILAB

Registration ID 117101



Crabgrass Preventer with BARRICADE .375% Plus

ACTIVE INGREDIENT:

Proflumarine, [N₃]-Dih-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylene diamine)..... 0.375%

INERT INGREDIENTS: 99.625%
TOTAL: 100.000%

BARRICADE is a registered trademark of Syngenta

For selective preemergence control of grass and broadleaf weeds in:

- Established preemergence control of grass and broadleaf weeds in:
- Established turf grasses (excluding golf course putting greens) and lawns
- Landscape ornamentals (including established perennials & wildflower plantings)
- Covers up to 16,390 square feet

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

- EPA REG. NO. 34704-776
- EPA EST. NO. 45063-CA-008 (Lot No. begins UCA)
- EPA EST. NO. 32802-MO-1 (Lot No. begins B)
- EPA EST. NO. 8378-IN-1 (Lot no. begins K)
- EPA Est. No. 9198-OH-1 (Lot No. begins H)
- EPA EST. NO. 49991-TX-1 (Lot begins TX-1)
- EPA EST. NO. 57131-WI-1 (Lot no. begins EC)
- EPA EST. NO. 49991-TX-2 (Lot begins TX-2)
- EPA EST. NO. 075527-PA-012 (Lot no. begins FS)
- EPA EST. NO. 82757-OH-1 (Lot begins MF)
- EPA EST. NO. 82757-FL-1 (Lot begins S)

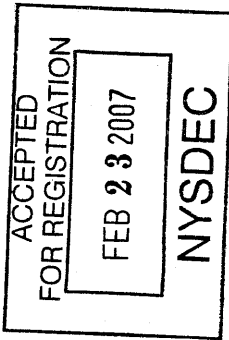
NET WEIGHT 50 LBS. (22.68 KG)

09/06

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.



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FIRST AID

If in eyes:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a 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 doctor. • Do not give anything by mouth to an unconscious person.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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 runoff 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **STORAGE:** Store in original container away from other fertilizer, feed, or food stuffs and separated from other pesticides.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Paper or plastic containers: 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 and local authorities, by burning locally. If burned, stay out of smoke.

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 grass and broadleaf weeds in:

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

This product control will be obtained when this product is activated by at least 0.5 inches of rainfall or irrigation, or with shallow (1 to 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 climate modification and being grown in ornamental gardens or patios, 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.

20-5-10

GUARANTEED ANALYSIS:

Total Nitrogen (N).....	20.00%
7.42% Ammoniacal Nitrogen	
3.38% Urea Nitrogen	
9.20% Slowly Available Water Soluble Nitrogen*	
Soluble Phosphate (P ₂ O ₅).....	5.00%
Sulfur (S).....	15.65%
Iron (Fe).....	1.87%
Manganese (Mn).....	0.31%

DERIVED FROM: Urea, Polymer Coated Sulfur Coated Urea, Monoammonium Phosphate, Ammonium Sulfate, Muriate of Potash, Potassium Sulfate, Iron Oxysulfate and Manganese Oxide.

*9.20% Slowly available Urea Nitrogen from Sulfur Coated Urea. Chlorine (Cl) not more than 5.00%. THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. Information regarding the contents and level of metals in this product is available on the Internet at <https://www.regulatory-info-up.com> Product No. F1548

GENERAL APPLICATION GUIDELINES:

Rate	lbs. Product per 1,000 sq. ft.	lbs. Nitrogen per 1,000 sq. ft.	lbs. A.I. per acre
Low	3.05	0.37	0.50
Medium	4.60	0.55	0.75
High	6.14	0.74	1.00

Spreader Setting	Bigfoot	Earthway	Lesco Rotary	AcalaPro 2000
Low	L	16	J	N
Medium	N	17	K	O
High	P	18	L	P

These settings are approximate for the application rate shown per 1,000 square feet. You may need to adjust the spreader setting depending on walking speed, spreader condition and product.

ESTABLISHED TURF

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of this product that may be applied per year is given for each turf grass species in the Maximum Annual Rates section of this label. Most effective weed control in turf grasses will be obtained when this product is activated by at least 0.5 inches of rainfall or irrigation prior to weed seed germination and within 14 days following application.



DISTRIBUTED BY
LOVELAND PRODUCTS, INC.
 P.O. BOX 1286, GREELEY, COLORADO 80632-1286

Crabgrass Preventer with BARRICADE® .375% Plus

EPA REG. NO. 34704-776

See the map below for approximate crabgrass seed germination dates.



Contact your Loveland products Sales Representative or local Agricultural Extension Agent for crabgrass germination information for your area.

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 seeding secondary roots are in the second inch of soil, not thatch plus soil.

Do not cut (harvest) treated sod before 120 days after application. 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.

Rate 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 should 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 recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

Turf Species:	Crabgrass Preventer with BARRICADE .375% Plus by Turf Grass Species ¹	Maximum Application Rate (Calendar Year of lbs product/A)	lbs a/A
Bermudagrass ²	400	1.5	
Bahiagrass			
Centipedegrass			
Seashore Paspalum			
St. Augustinegrass			
Tall Fescue (including turf-type)			
Zoysia			
Buffalograss	267	1.0	
Kentucky Bluegrass			
Perennial Ryegrass			
Creeping Red Fescue	200	0.75	
Creeping Bentgrass	175	0.65	

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
This product may be applied to established ornamentals as a broadcast, over the top or directed application. Inigation or rainfall soon after application will wash residues off plant foliage and activate this product in the soil.

Newly Transplanted Landscape Ornamentals
This product may be applied to newly transplanted ornamentals as a broadcast, over the top or directed application. Before 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. Best results will be obtained when this product is uniformly distributed on 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 species. When plants are under stress (such as heat, drought, or frost damage) some cultivars of plants may be sensitive to this product.

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY
BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL, THIS PRODUCT IS SOLD AS IS TO THE EXTENT ALLOWED BY APPLICABLE LAW. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL, BUYER OR USER MUST SEND TO THE EXTENT REQUIRED BY APPLICABLE LAW, WRITTEN NOTICE OF SUCH CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, 7251 WEST 4TH STREET, GREELEY, CO 80634.

TO THE EXTENT ALLOWED BY APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING: AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER, DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT TO THE EXTENT ALLOWED BY APPLICABLE LAW. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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 130 lbs./A. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retained. Suppression only of Foxtail, Goosegrass and Rescuagrass due to reduced product rates used in sprigging situations.

3. Do not apply more than 400 lbs of this product per calendar year.

4. 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.

Weeds Controlled
When used in accordance with this label this product will provide control of the following weeds:

Barnyardgrass	Henbit	Purslane, Common
Bluegrass, Annual (<i>Poa annua</i>)	Itchgrass	Purple, Florida
Cyperus	Johnsongrass (from seed)	Rescuegrass ³
Chickweed, Common	Kochia	Shepherd's Purse ³
Crabgrass (large, smooth)	Lambsquarter, Common	Spangletop
Crabgrass (large, smooth)	Lambsquarter, Common	Spangletop
Crabgrass, Woolly	Lambsquarter, Common	Spurge, Prostrate
Foxtail, Annual	Panicum (Texas, Fall, Brown-top)	Witchgrass
Goosegrass	Pigweed	Woodsorrel, Yellow (from seed)

In many areas a single application of 175 to 400 lbs./A. 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 175 to 267 lbs./A. 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 turf grass species listed in the Maximum Annual Rate Table above.

Applications for this weed should be made in late summer, fall or winter prior to germination. Suppression only.

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. 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 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.

Crabgrass Preventer with BARRICADE .375% Plus Rate (lb/A)	Months Before Overseeding		
	North	Transition	South
133	4	4	4
175	5	4	4
200	6	5	5
213	7	6	6
267	10	7	7
305	14	9	9
347	19	10	10
400	19	12	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 175 to 400 lbs/A in fall and/or spring. Use higher rates of application for longer control periods. Sequential or single applications are allowed so long as the total amount of product applied does not exceed the maximum annual application rate of 400 lbs./A/yr.

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 inches of rainfall or irrigation, or with shallow (1 to 2 inches) mechanical incorporation, prior to weed seed germination and within 14 days following application.