

BACK

ID0000

BALAN® DRY FLOWABLE

DIRECTIONS FOR USE

BALAN® DRY FLOWABLE is a selective preemergence herbicide for the control of crabgrass and most other annual weed grasses on lawns and golf courses in established:

Bluegrass (perennial)	Bahiagrass	St. Augustinegrass
Ryegrass (perennial)	Bermudagrass	Zoysiagrass
Fescue	Centipedegrass	

Precautions

Apply BALAN DRY FLOWABLE to the turf prior to the germination of weed grasses since Balan will not control established weeds. BALAN DRY FLOWABLE may thin established annual bluegrass (*Poa annua*) turfs and fine-leaved fescues at rates above 2-1/2 pounds per acre (1.5 pounds active ingredient). BALAN DRY FLOWABLE should not be applied in the spring to turfgrass planted the previous fall. In bermudagrass areas that have been overseeded with winter grasses, a spring application of Balan may thin the over-seeded grasses. Because of varying cultural practices, BALAN DRY FLOWABLE should not be used on putting greens. BALAN DRY FLOWABLE should not be used on dichondra. BALAN DRY FLOWABLE should not be applied to newly sprigged areas of bermudagrass, St. Augustinegrass or centipedegrass until these turfs are well established.

CAUTION

Keep out of reach of children. Avoid contact with skin, eyes or clothing. Harmful if swallowed.

First Aid: In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

Environmental Hazards

This product is toxic to fish. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

Storage and Disposal

Do not store in direct sunlight. Do not store at temperatures above 120°F. If stored above 120°F, BALAN DRY FLOWABLE

could lose some of its dispersing properties, resulting in difficult application, poor weed control or crop injury.

Empty container into spray tank; drain in vertical position for 30 seconds. Refill container with water one-fifth (1/5) to one-fourth (1/4) full, shake and rinse thoroughly. Pour into tank; drain. Repeat rinsing and draining three times. Do not reuse. Dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

The manufacturer makes no warranties, express or implied, concerning this product or its use, which extend beyond the description on the label. All statements made concerning this product apply only when used as directed.

Directions for Use

Read All Directions Carefully Before Applying

BALAN[®] DRY FLOWABLE is a preemergence herbicide which is applied to established turfgrasses for the control of annual bluegrass (*Poa annua*), smooth and hairy crabgrass, goosegrass (silver crabgrass or crowfoot); barnyardgrass (watergrass) and green and yellow foxtail. BALAN DRY FLOWABLE controls these annual weeds by killing their seeds as they germinate. Apply Balan before these annual weeds begin to germinate since it does not control established weeds.

Application Directions

Rates, Frequency and Timing of Application

Successful preemergence control of the annual grass weeds listed on this label requires proper timing of application.

Apply BALAN DRY FLOWABLE approximately one to two weeks prior to the germination of annual grass weeds. All summer annual grasses do not germinate at the same time. If application timing does not coincide with the normal germination period of any of the annual grass weeds listed on this label, weed control results may be erratic or poor. Optimum weed control performance will be obtained if treated areas are irrigated soon after application.

Any cultural practices that disturb the soil, such as aerification or verticutting, should be done prior to application of BALAN DRY FLOWABLE

1. Spring germinating summer annual grasses--crabgrasses, foxtails and barnyardgrass
 - A. Northern (cool season) turfgrasses
For preemergence control, apply 2-1/2 to 3-1/3 pounds per acre (1.5 to 2 pounds active ingredient) of BALAN DRY FLOWABLE per acre in the spring one to two weeks prior to the onset of conditions favorable for annual weed grass seed germination.

B. Southern (warm season) turfgrasses

For preemergence control, apply 3-1/3 to 5 pounds (2 to 3 pounds active ingredient) of BALAN DRY FLOWABLE per acre in the late winter or early spring one to two weeks prior to the onset of conditions favorable for annual weed grass seed germination.

In areas of the United States where germination of these annual weed grass species continues for extended periods of time, a second application of BALAN DRY FLOWABLE at the recommended rate may be made 8 to 10 weeks after initial treatment for continued control.

2. Late spring, early summer germinating annual grasses--goosegrass

Although classified as a summer annual grass, goosegrass normally germinates 4 to 6 weeks later than crabgrass, foxtails and other summer annual grass species.

Applications of BALAN DRY FLOWABLE should, therefore, be timed accordingly.

A. Northern (cool season) turfgrasses

For preemergence control, apply 3-1/3 pounds (2 pounds active ingredient) of BALAN DRY FLOWABLE per acre in the late spring or early summer one to two weeks prior to the expected germination of goosegrass.

When Balan is applied as directed, the following established turfgrasses are tolerant

Kentucky bluegrass
Perennial ryegrass
Centipedegrass
Fescue

Zoysiagrass
Bermudagrass
St. Augustinegrass
Bahia grass

BALAN DRY FLOWABLE will not harm most nearby established ornamental trees and shrubs.

B. Southern (warm season) turfgrasses

For preemergence control, apply 3-1/3 to 5 pounds (2 to 3 pounds active ingredient) of BALAN DRY FLOWABLE per acre in the late spring or early summer one to two weeks prior to the expected germination of goosegrass.

3. Northern and southern turfgrasses

In areas of the United States where preemergence control of both early germinating annual grasses (crabgrass, foxtails and barnyardgrass) and the later germinating goosegrass is desired, two applications of BALAN DRY FLOWABLE at the recommended rate spaced 8 to 10 weeks apart may be made to provide full season control of these annual grass species.

4. Poa annua (annual bluegrass)

In areas of heavy infestation of annual bluegrass, its elimination will temporarily result in thin turfgrass areas. Proper fertilization, irrigation and soil

incorporated reseeding will encourage existing desirable turfgrasses and newly planted seedling turfgrasses to fill in thin areas previously occupied by annual bluegrass.

A. Northern (cool season) turfgrasses

For preemergence control, apply 3-1/3 pounds (2 pounds active ingredient) of BALAN DRY FLOWABLE per acre in late summer or early fall and again in late winter or early spring one to two weeks prior to the expected germination of annual bluegrass.

B. (Southern (warm season) turfgrasses

For preemergence control, apply 5 pounds (3 pounds active ingredient) BALAN DRY FLOWABLE per acre in the late summer or early fall one to two weeks prior to the expected germination of annual bluegrass. In southern areas of the United States where germination of annual bluegrass continues for extended periods of time, a second application of BALAN DRY FLOWABLE at 5 pounds per acre can be made 10 to 12 weeks after the initial treatment.

Reseeding

Chemicals that effectively control annual weed seeds may also affect new desirable turfgrass seedlings. Reseeding should be delayed for at least 6 weeks after applying Balan. When reseeding, it is essential that proper cultural practices such as soil cultivation, irrigation and fertilization be followed. For satisfactory reseeding results after using Balan, the amount of seed used should be increased and equipment designed to place seed in contact with the soil (such as the Rogers Aero Seeder) should be employed. When using Balan at the highest recommended rate, reseeding should be delayed 12 to 16 weeks after application.

Application Equipment and Direction

Application direction

BALAN DRY FLOWABLE Sprayable is to be mixed with water and applied as a spray. Apply in 50 to 250 gallons of water per acre (broadcast basis) using any properly calibrated spray unit.

General Sprayer Information

Vigorous, continuous agitation is required for all dry flowables. Sparger pipe agitation generally provides the best agitation. As when using any dry flowable pesticide, the sprayer in-line strainer should be no finer than a 16 mesh (16 mesh has larger openings than 50 mesh).

1. Be sure sprayer tank is clean and not contaminated with any material, as turf injury or sprayer clogging may result.

2. Be certain that agitation system is working properly and creates a rippling or rolling action on the liquid surface.
3. Use a pump with capacity to (a) provide sufficient agitation in tank to keep mixture in suspension, and (b) to provide to the agitator 20% bypass at all times.
4. Centrifugal pumps are preferred since they provide propeller shear action for dispersing and mixing this product.
5. Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16 mesh or coarser. Use 50 mesh or coarser screens between the pump and boom and when required at the nozzles.
6. Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue (in the case of tank mixes). If an oil or emulsifiable concentrate film starts to build up in the tank, drain and clean with strong detergent solution.
7. It is good practice to clean sprayer tank thoroughly by flushing system with water containing a detergent, then refill with clean water.

General Mixing Directions

Use the following instructions for mixing Balan Dry Flowable alone in water and tank mixed in water.

General Mixing Instructions in Water Alone:

Start with a clean sprayer. Fill the spray tank three-fourths (3/4) full with clean water. Start agitation and increase pump speed to operating pressure. Add the correct quantity of Balan Dry Flowable from the original package. Do not premeasure Balan Dry Flowable into a larger container or enlarge the container opening. Continue agitation and finish filling the tank. Maintain agitation from mixing through application. Induction systems on custom application equipment may be used to disperse Balan Dry Flowable in water.

When the sprayer tank opening is directly above the outlet port, fill the spray tank three-fourths (3/4) full with clean water. Do not start the sprayer or agitation. Add the correct quantity of Balan Dry Flowable from the original package and allow the Balan Dry Flowable particles to wet as they settle to the bottom of the tank. Finish filling the tank. Start and maintain agitation until the tank is empty. If the in-line strainer becomes clogged, remove the screen and rinse in the spray tank. Replace the screen, restart the sprayer and continue agitation.

General Tank Mix Instructions:

Vigorous, continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. During filling, to prevent foaming, avoid stirring or splashing air into the mixture by placing the end of the fill pipe below the surface of the water in the spray tank. Do not allow the mixture to siphon back into the water source.

Mixing order: Fill the tank three-fourths (3/4) full with clean water. Start agitation and increase pump speed to operating pressure. Add Balan Dry Flowable, then add other dry flowables, wetttable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), solutions (S), and emulsifiable or liquid concentrates (EC) in this order to the water and agitate continuously until the product(s) are completely dispersed in the water. Maintain agitation from filling through application. If spraying and agitation must be stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to resuspend all of the material in the bottom of the tank before continuing the spray application. Sometimes it is more difficult to resuspend settled material than it is to suspend them originally. A sparger agitator is particularly useful for this purpose.

Read and carefully follow all label instructions for each material added to the tank. Premixing dry and flowable formulations with water (slurrying) and pouring the slurry through a 20 or 35 mesh wetting screen in the top of the tank will help assure good initial dispersion in the tank water. In-line screens in the tank should be no finer than 16 mesh (16 mesh has bigger openings than 50 mesh).

If a buildup of material is seen on the walls of the spray tank, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean tank, lines, and screens thoroughly after use.

Elanco Products Company
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

12/15/82

ACCEPTED

ELANCO

ID 5529

Herbicide
Balan
Dry Flowable

TM

Net Contents 12½ Pounds

A selective herbicide for the pre-emergence control of annual grasses and broadleaf weeds.

Active ingredient
N-Ethyl-N-(2,6-dimethyl-4-pyridinyl)-2,6-dinitro-p-toluidine 60%
Inert ingredients 40%
Contains 10 pounds active ingredient per pound
"BALAN" is a registered trademark for Elanco Products Limited

Keep Out of Reach of Children.

CAUTION

See back of container for additional precautionary statements.
EPA Reg. No. 1471-140

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Avoid contact with skin, eyes, or clothing. Harmful if swallowed.

First Aid: In case of contact, immediately flush eyes or skin with plenty of water. If swallowed drink large quantity of water and induce vomiting by placing finger in back of throat. Never give anything by mouth to unconscious person.

If accidentally swallowed, or if irritation persists, get medical attention.

Environmental Hazards

This product is toxic to fish. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

Directions for Use

See attached literature for complete directions for use.

Read all directions carefully before applying.

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

STORAGE AND DISPOSAL

Storage: Do not store in direct sunlight. Do not store at temperatures above 120°F. If stored above 120°F, BALAN Dry Flowable could lose some of its dispersing properties, resulting in difficult application, poor weed control or crop injury.

Container Disposal:

1. Empty container into spray tank.
2. Refill container with water 1/5 to 1/4 full, shake and rinse thoroughly, pour into tank, drain.
3. Repeat rinsing and draining 3 times.
4. Do not reuse. Dispose of in a sanitary landfill or by incineration if allowed by state and local authorities.

The manufacturer makes no warranties, express or implied, concerning this product or its use which extend beyond the description on the label. All statements made concerning this product apply only when used as directed.

XPRM 5185A

ID 5529

Elanco Products Company • A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

ELANCO D 6929

Herbicide

Balan 

Dry Flowable

TM

Directions for Use,
Use Cautions, Precautions and
Special Precautions
Crop Recommendations
Tank Mix Recommendations

ELANCO PRODUCTS COMPANY
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

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ELANCO PRODUCTS COMPANY
INDIANAPOLIS, IN 46285

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Dual[®] - Insecticide, Ciba-Geigy
 Vernam[®] - Fertilizer, Stauffer Chemical Company
 Balan[®] - Herbicide, Ciba-Geigy

DIRECTIONS FOR USE

BALAN is a preemergence herbicide which is soil-incorporated to provide season-long control of many annual grasses and broadleaf weeds throughout the growing season. Incorporation of BALAN helps assure effective weed control. BALAN controls weeds as they germinate.

SOIL TEXTURE GUIDE

The amount of BALAN applied will vary with the soil texture. A fine textured soil generally requires more BALAN than a coarse textured soil. BALAN is not recommended for use on muck or other soils high in organic matter content.

Refer to the following table to determine soil classification.

SOIL TEXTURE	SOIL CLASSIFICATION
Coarse	Sand
	Loamy sand
	Sandy loam
Medium	Loam
	Silty clay loam*
	Silt loam
	Silt
Fine	Sandy clay loam*
	Clay
	Clay loam
	Silty clay loam*
	Silty clay
	Sandy clay Sandy clay loam*

*Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If predominantly clay, they are usually classified as fine textured soils.

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
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