

(Base label, Balan DF, 12.5 lb):

(logo) DowElanco

Balan* Dry Flowable

A selective herbicide for preemergence control of crabgrass and most other annual weed grasses on lawns and golf courses in established:

- | | |
|--|----------------------|
| Bahiagrass | Centipedegrass |
| Bentgrass (excluding putting greens
and the variety Astoria Colonial) | Fescue |
| Bermudagrass | Ryegrass (perennial) |
| Bluegrass (perennial) | St. Augustinegrass |
| | Zoysiagrass |

Active Ingredient:

benefin: <i>N</i> -butyl- <i>N</i> -ethyl- <i>a,a,a</i> -trifluoro-2,6-dinitro- <i>p</i> -toluidine	60%
Inert Ingredients	40%
Total	100%

Contains 0.6 pounds of active ingredient per pound.

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION

Harmful If Swallowed, Inhaled Or Absorbed Through The Skin

Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing.

First Aid

- If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoons) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.
- If on skin: Wash with plenty of soap and water. Call a physician if irritation develops.
- If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention.
- If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

Environmental Hazards

This pesticide is 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. Do not apply when conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters.

Refer to label booklet for additional precautionary information and Directions for Use including Storage and Disposal.

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ACCEPTED
62719-127

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Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet. In case of an emergency endangering life or property involving this product, call collect 517-636-4400. Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-127

EPA Est. _____

*Trademark of DowElanco
DowElanco • Indianapolis, IN 46268 U.S.A.

Herbicide

Net Weight 12.5 lb

378

(Datapak, Cover, Balan DF, 12.5 lb):

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Herbicide

Net Weight 12.5 lb

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Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION

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If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention.

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

Environmental Hazards

This pesticide is 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 neighboring areas. Do not apply when conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

STORAGE AND DISPOSAL

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

Storage: Store in original container only. Do not store in direct sunlight. Do not store at temperatures above 120°F. If stored above 120°F, Balan Dry Flowable herbicide could lose some of its dispersing properties, resulting in difficult application, poor weed control or crop injury. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Plastic Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Balan Dry Flowable is a pre-emergence herbicide which is applied to established turfgrasses for the control of annual bluegrass (*Poa annua*), smooth and hairy crabgrass, goosegrass (silver crabgrass or crowfoot), bannyardgrass (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. Balan Dry Flowable will not harm most nearby established ornamental trees and shrubs.

General Use 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).

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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, centipedegrass, or zoysiagrass or to newly laid sod of any turf species until such turfs are well established.

Balan Dry Flowable can be applied in the spring to turfgrass planted the previous fall if that turf has become well established during the previous fall and has been mowed at least four (4) times. Use only the low rate of 3-1/3 pounds per acre for the initial spring application of Balan Dry Flowable to well established fall planted turf. In turfgrass areas that have been fall overseeded or fall reseeded, a spring application of Balan Dry Flowable can be made after the overseeded or reseeded turf has become well established and has been mowed at least four (4) times. Use only the lower rate of 3-1/3 pounds per acre for the initial spring application of Balan Dry Flowable to well established fall overseeded or fall reseeded turf. If newly planted or fall overseeded or fall reseeded turfgrass is treated prior to becoming well established with Balan Dry Flowable, injury to the seeded grass may result.

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.

Mixing and Application Directions

Balan Dry Flowable 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 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.

Mixing Directions

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

Mixing With Water Alone

1. Be sure sprayer is clean and not contaminated with any foreign material.
2. Fill tank one-fourth (1/4) full with clean water and start agitation.

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3. Be certain that agitation system is working properly. Vigorous, continuous agitation throughout the spray tank is required with dry flowable formulations. Agitation should be sufficient to create a rippling or rolling action on the liquid surface. Sparger pipe agitation generally provides the best agitation in spray tanks.
4. 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 during the filling process.
5. Pour product directly from container into tank. Controlled addition of the product is important to assure adequate wetting and mixing to prevent clogging of screens and outlet ports.
6. Continue filling tank with water until full.

Tank Mixing

1. Add Balan Dry Flowable to the spray tank following the instructions above for Balan alone.
2. Fill the spray tank to 90% full with water.
3. Add other formulations in this order: other dry flowables, wettable powders (WP), aqueous suspensions (A.S.), flowables (F), liquids (L), solutions (S) and emulsifiable or liquid concentrates (E.C., L.C.) in this order allowing two to three minutes between the addition of each product, and agitate continuously until the product(s) are completely dispersed in the water. Each chemical added to the spray tank needs time to either wet or mix with water and other chemicals in the spray tank. To insure proper mixing, time and agitation is required between the addition of each of the additional products.
4. Continue filling tank with water until full.

General Instructions and Precautions

1. For either Balan Dry Flowable alone or in tank-mix combination, maintain agitation from filling through application. If spraying and agitation is stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to resuspend again all 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 it originally. A sparger agitation is particularly useful for this purpose.
2. In-line screens in the tank should be no finer than 16 mesh (16 mesh has bigger openings than 50 mesh).
3. 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.
4. Read and carefully follow all label instructions for each material added to the tank.

Read the Balan Dry Flowable label for additional directions, precautions and limitations before use.

Rates, Frequency and Timing of Application

Successful pre-emergence 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 should 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. For control of spring germinating summer grasses - crabgrasses, foxtails and barnyardgrass, apply Balan Dry Flowable as follows:
 - a. Extreme Northern U. S. Cool-Season Turfgrass: For pre-emergence control, apply 3 1/3 to 5 pounds per acre (2 to 3 pounds active ingredient) of Balan Dry Flowable. Apply in spring 1 to 2 weeks prior to the onset of conditions favorable for annual grass weed seed germination.

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- b. **Northern U. S. Cool-Season Turfgrass:** For pre-emergence control, apply 3 1/3 to 5 pounds per acre (2 to 3 pounds active ingredient) of Balan Dry Flowable. Apply in spring 1 to 2 weeks prior to the onset of conditions favorable for annual grass weed seed germination. Make a second application of 3 1/3 to 5 pounds per acre (2 to 3 pounds active ingredient) of Balan Dry Flowable 8 to 10 weeks after the first application.

Balan Dry Flowable can also be integrated as a complementary treatment in granular application programs using Team[®] 2G, Team plus fertilizer, Balan 2.5G or Balan plus fertilizer.

- c. **Southern U. S. Warm-Season Turfgrass:** For pre-emergence control, apply 3 1/3 to 5 pounds per acre (2 to 3 pounds active ingredient) of Balan Dry Flowable. Apply in spring 1 to 2 weeks prior to the onset of conditions favorable for annual grass weed seed germination. Make a second application of 3 1/3 to 5 pounds per acre (2 to 3 pounds active ingredient) of Balan Dry Flowable 8 to 10 weeks after the first application.

Balan Dry Flowable can also be integrated as a complementary treatment in granular application programs using Team 2G, Team plus fertilizer, Balan 2.5G, Balan plus fertilizer, Xt., 2G or Surlan[®] plus fertilizer, or in a liquid application program with Surlan A.S.

2. *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 pre-emergence 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 pre-emergence 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.

Balan Dry Flowable Rate Reference Chart

Rate/Acre		Rate/1000 sq ft
Pounds a.i./acre	Pounds of Product/Acre	oz /1000 sq ft
2	3.33	1.25
3	5.0	1.85

Warranty Disclaimer

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by buyer.

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Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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