

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (978-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 32802-7	DATE OF ISSUANCE 4/24/85
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT All Season Balan Granular 2.50	

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Dow Agro-Science Enterprises Inc.
 Railroad Avenue
 P.O. Box 828
 Weymouth, MA 01985

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.

The 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/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 32802-7."
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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.

Robert J. Taylor
 Product Manager (25)
 Fungicide-Herbicide Branch
 Registration Division TS-7670

Enclosure

BEST AVAILABLE COPY

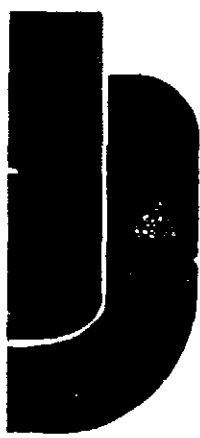
ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Robert J. Taylor

DATE 4/24/85

Reg # 32802-7 p. 2 of 5
1/1/85



ACCEPTED
APR 24 1985
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 32802-7

BALAN[®] Granular

2.5G

A selective pre-emergence herbicide for the control of crabgrass and most other annual weed grasses on lawns and golf courses in established. Also For Po. Annua.

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

BALAN[®] Registered Trademark of Elanco Products Company for:
BENEFIN - Generic Name and Registered Trademark of Elanco Products Company

ACTIVE INGREDIENT:
N-butyl-N-ethyl-alpha, alpha, alpha-trifluoro-2,6-dinitro-p-toluidine 2.5%

INERT INGREDIENTS: 97.5%

EPA Reg. No. 32807

Total 100.0%
EPA Est. No. 32802-WI-1 (A)
32802-MO-1 (B)

Keep Out Of Reach Of Children CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. **IF IN EYES:** Flush eyes with plenty of water. Get medical attention. **IF ON SKIN:** Remove contaminated clothing. Wash affected area with soap and warm water.

NORTHERN TURF - 40 lbs. treats 1/2 to 2/3 acre
(22,000 Sq.Ft. to 29,000 Sq.Ft.)

SOUTHERN TURF - 40 lbs. treats 1/3 to 1/2 acre
(14,500 Sq.Ft. to 22,000 Sq. Ft.)

See Side/Back Panel For Additional Precautionary Statements

NET WEIGHT 40 LBS.

Howard Johnson Enterprises Inc., Viroqua, Wisconsin 54665

Reg # 32802-7
PN 25 (1085)

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

IMPORTANT: HOW AND WHERE TO USE

Apply Balen® Granular to the turf prior to the germination of weed grasses. Balen® will not control established weeds. Balen® Granular may kill established annual bluegrass (*Poa annua*) turfs and fine-leaved fescue at rates above 60 pounds per acre (1.5 pounds active ingredient). Balen® Granular 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 Balen® may thin the over-seeded grasses. Because of varying cultural practices, Balen® Granular should be not be used on putting greens. Balen® Granular should not be used on dichondra. Balen® Granular should not be applied to newly sprigged areas of bermudagrass, St. Augustinegrass or centipedegrass until these turfs are well established.

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 Balen® 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 aeration or verticutting, should be done prior to application of Balen®.

1. Spring germinating summer annual grasses—crabgrasses, foxtails and barnyardgrass.

A. Northern (cool season) turfgrasses

For preemergence control, apply 60 to 80 pounds per acre (1.5 to 2 pounds active ingredient) of Balen® Granular 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 80 to 120 pounds (2 to 3 pounds active ingredient) of Balen® Granular 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 Balen® Granular 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 Balen® should, therefore, be timed accordingly.

A. Northern (cool season) turfgrasses

For preemergence control, apply 80 pounds (2 pounds active ingredient) of Balen® Granular per acre in the late spring or early summer one to two weeks prior to the expected germination of goosegrass.

When Balen® is applied as directed, the following established turfgrasses are tolerant:

- | | | | |
|--------------------|----------------|--------------|--------------------|
| Kentucky bluegrass | Centipedegrass | Zoysiagrass | St. Augustinegrass |
| Perennial ryegrass | Fescue | Bermudagrass | Bahiagrass |

Balen® will not harm most nearby established ornamental trees and shrubs.

B. Southern (warm season) turfgrasses

For preemergence control, apply 80 to 120 pounds (2 to 3 pounds active ingredient) of Balen® Granular 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 Balen® Granular 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 reseeded will encourage existing desirable turfgrasses and newly planted seeding turfgrasses to fill in these thin areas previously occupied by annual bluegrass.

A. Northern (cool season) turfgrasses

For preemergence control, apply 80 pounds (2 pounds active ingredient) of Balen® Granular 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 120 pounds (3 pounds active ingredient) Balen® Granular per acre in the late summer or early fall one to two weeks prior to the expected germination of annual bluegrass. In the southern areas of the United States where germination of annual bluegrass continues for extended periods of time, a second application of Balen® Granular at 120 pounds per acre can be made 10 to 12 weeks after the initial treatment.

For application to ~~crabgrass~~, apply the following amount of Balen® Granular:

Balen® Per 1,000 Sq. Ft.	Balen® Per 1,000 Sq. Ft.
60 pounds	1 1/2 pounds
80 pounds	2 pounds
120 pounds	3 pounds

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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

Apply Balan® granular evenly over the turfgrass area without skips or misses. A more uniform application can be made by spreading half the required amount over the area and then applying the remaining half at right angles. Both drop type and rotary type spreaders may be used. Avoid the use of equipment designed to apply granular herbicides and insecticides. Calibrate applicators prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly.

Listed below are approximate spreader settings. These should serve only as initial starting points for calibration since all spreaders will vary in their operation depending on the age, condition, particular model and speed of operator. Always calibrate your own spreader according to the manufacturer's recommendations.

Approximate Spreader Settings As A Guide For Calibration

(for applying Balan® in one pass over the turf)

Spreader Type	To Apply Pounds Per Acre		
	60 lbs	80 lbs	120 lbs
Cyclone:			
Models B, B9, 99 and 100	3.25	3.75	4.0
Models M-3, M-1, and M-1A (based on tractor speed of 4 mph)	6.5	7.25	8.75
Models S-1 and S-3 (based on tractor speed of 4 mph and PTO speed of 540 rpm)	6.25	7.0	8.25
Ezee Flow:			
Models 105 and 88F	B	B ₁	C
Models 106 and 116	A ₁ (1)	B ₁ (2)	C ₁ (2)
Model 108 (1) at 5 mph (2) at 6 1/2 mph	C ₁ (1)	A ₁ (1)	B ₁ (1)
Goway:			
Model 10 A Series, 6, 8, 10, 11, and 20 ft	13	15	17
3-point hitch series, 8, 10, 12, and 14 ft (based on tractor speed of 5 mph)	36	40	50
600 series, 3, 4, and 5 ft (based on tractor speed of 3 mph)	19	22	25
Lady:			
Models W and H (based on tractor speed at 4 1/2 mph)	3	4	5
Scott:			
Rotary, Model RS	D	E	G

NOTICE

Howard Johnson Ent. warrants that this material conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use. This product is sold subject to the understanding that the buyer assumes all risks of use or handling which may result in loss or damage which are beyond the control of the seller, such as for example incompatibility with other products, the manner of its use or application, or the presence of other products or materials in or on the soil or crop. Howard Johnson Ent. makes no other express or implied warranty of fitness or merchantability. The exclusive remedy of the buyer or user, and the limit of liability of Howard Johnson Ent. for any and all losses, injuries or damages resulting from the use or handling of this product shall be the purchase price paid by the user or buyer for the quantity of this product involved. The buyer and all users are deemed to have accepted the terms of this notice, which may not be varied by any verbal or written agreement.

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29/4 #32802-7 PM/25

PRECAUTIONARY STATEMENTS:

Hazards To Humans and Dometic Animals

CAUTION: Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling and before eating or smoking.

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. This product is toxic to fish. Keep out of any body of water. Do not apply when weather conditions favor run-off or drift from treated areas.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **STORAGE:** Store product in original container bag in a cool, dry, locked, place out of reach of children. **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:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

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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.

IMPORTANT: HOW AND WHERE TO USE

Apply Balen® Granular to the turf prior to the germination of weed grasses. Balen® will not control established weeds. Balen® Granular may not control established annual bluegrass (Poa annua) turfs and fine-leaved fescues at rates above 60 pounds per acre (1.5 pounds active ingredient). Balen® Granular should not be applied in the spring to turfs planted the previous fall in bermudagrass areas that have been overseeded with winter grasses. A spring application of Balen® may thin the over-seeded grasses. Because of varying cultural practices, Balen® Granular should be not be used on putting greens. Balen® Granular should not be used on dichondra. Balen® Granular should not be applied to newly sprigged areas of bermudagrass, St. Augustinegrass or centipedegrass until these turfs are well established.

APPLICATION DIRECTIONS

Rates, Frequency and Timing of Application

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Any cultural practices that disturb the soil, such as aerification or verticutting, should be done prior to application of Balen®.

1. Spring germinating summer annual grasses—crabgrasses, foxtails and bermudagrass.

A. Northern (cool season) turfs For preemergence control, apply 60 to 80 pounds per acre (1.5 to 2 pounds active ingredient) of Balen® Granular 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) turfs For preemergence control, apply 80 to 120 pounds (2 to 3 pounds active ingredient) of Balen® Granular 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 Balen® Granular 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 Balen® should, therefore, be timed accordingly.

A. Northern (cool season) turfs For preemergence control, apply 80 pounds (2 pounds active ingredient) of Balen® Granular per acre in the late spring or early summer one to two weeks prior to the expected germination of goosegrass.

When Balen® is applied as directed, the following established turfgrasses are tolerant:

- Kentucky bluegrass Centipedegrass Zoysiagrass St. Augustinegrass
Perennial ryegrass Fescue Bermudagrass Bahiagrass

Balen® will not harm most nearby established ornamental trees and shrubs.

B. Southern (warm season) turfs For preemergence control, apply 80 to 120 pounds (2 to 3 pounds active ingredient) of Balen® Granular per acre in the late spring or early summer one to two weeks prior to the expected germination of goosegrass.

3. Northern and southern turfs

In areas of the United States where preemergence control of both early germinating annual grasses (crabgrass, foxtails and bermudagrass) and the later germinating goosegrass is desired, two applications of Balen® Granular 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 blue grass, its elimination will temporarily result in thin turfgrass areas. Proper fertilization, irrigation and soil incorporated reseeded will encourage existing desirable turfgrasses and newly planted seeding turfgrasses to fill in these thin areas previously occupied by annual bluegrass.

A. Northern (cool season) turfs For preemergence control, apply 80 pounds (2 pounds active ingredient) of Balen® Granular 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) turfs For preemergence control, apply 120 pounds (3 pounds active ingredient) of Balen® Granular per acre in the late summer or early fall one to two weeks prior to the expected germination of annual bluegrass. In the southern areas of the United States where germination of annual bluegrass continues for extended periods of time, a second application of Balen® Granular at 120 pounds per acre can be made 10 to 12 weeks after the initial treatment.

For application to smaller areas apply the following amount of Balen® Granular

Table with 2 columns: Balen® Per Acre and Balen® Per 1,100 Sq. Ft. Rows: 60 pounds (1 1/4 pounds), 80 pounds (2 pounds), 120 pounds (3 pounds)

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

Apply Balan® Granular evenly over the turfgrass area without skips or misses. A more uniform application can be made by spreading half the required amount over the area and then applying the remaining half at right angles. Both drop type and rotary type spreaders may be used. Avoid the use equipment designed to apply granular herbicides and insecticides. Calibrate applicators prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly.

Listed below are approximate spreader settings. These should serve only as initial starting points for calibration since all spreaders will vary in their operation depending on the age, condition, particular model and speed of operator. Always calibrate your own spreader according to the manufacturer's recommendations.

Approximate Spreader Settings As A Guide For Calibration
(for applying Balan® in one pass over the turf)

Spreader Type	To Apply Pounds Per Acre		
	60 lbs	80 lbs	120 lbs
Cyclone:			
Models B, B9, 99 and 100	3.25	3.75	4.0
Models M-3, M-1, and M-1A (based on tractor speed of 4 mph)	6.5	7.25	8.75
Models S-1 and S-3 (based on tractor speed of 4 mph and PTO speed of 540 rpm)	6.25	7.0	8.25
Ezee Flow:			
Models 105 and 88F	B	B ₁	C
Models 108 and 118	A ₁ (1)	B ₁ (2)	C ₁ (2)
Model 109 (1) at 5 mph (2) at 6 1/2 mph	C ₁ (1)	A ₁ (1)	B ₁ (1)
Gandy:			
Model 10 A series, 6, 8, 10, 11, and 20 ft	13	15	17
3-point hitch series, 6, 10, 12, and 14 ft (based on tractor speed of 5 mph)	36	40	50
600 series, 3, 4, and 5 ft. (based on tractor speed of 3 mph)	19	22	25
Lady:			
Models W and H (based on tractor speed at 4 1/2 mph)	3	4	5
Scott:			
Rotary, Model RS	D	E	G

NOTICE

Howard Johnson Ent. warrants that this material conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use. This product is sold subject to the understanding that the buyer assumes all risks of use or handling which may result in loss or damage which are beyond the control of the seller, such as for example incompatibility with other products, the manner of its use or application, or the presence of other products or materials in or on the soil or crop. Howard Johnson Ent. makes no other express or implied warranty of fitness or merchantability. The exclusive remedy of the buyer or user, and the limit of liability of Howard Johnson Ent. for any and all losses, injuries or damages resulting from the use or handling of this product shall be the purchase price paid by the user or buyer for the quantity of this product involved. The buyer and all users are deemed to have accepted the terms of this notice, which may not be varied by any verbal or written agreement.

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 303-210	DATE OF ISSUANCE 19 APR 1988
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT Q-Cide	

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Huntington Laboratories
 968 East Tipton Street
 Huntington, IN 46750

BEST AVAILABLE COPY

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.

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/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

- a. Add the phrase "EPA Registration No. 303-210."
- b. Correct the spelling of the word: neutralization (p.#12 - Research Bulletin).
- c. Delete the statement: GENERAL CLASSIFICATION
- d. Delete the word: instruments

Ref: As  label

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE