



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

November 1, 2006

Kyla S. Smith  
Gowan Company  
P.O. Box 5569  
Yuma, AZ 85366

SUBJECT: ✓ Applications for Pesticide Notification  
Betasan® 12.5-G EPA Reg. No. 10163-198  
Betasan® 7-G EPA Reg. No. 10163-204  
Applications Dated October 5, 2006

Dear Ms. Smith:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above products. The Registration Division (RD) has conducted a preliminary screen of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The labels submitted with the applications have been stamped "Notification" and will be placed in our records.

If you have any questions, please me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

October 23, 2006

Document Processing Desk (NOTIF)  
Jim Tompkins, PM Team 25 (703) 305-5697  
U.S.E.P.A., Office of Pesticide Programs (7504P)  
One Potomac Yard  
2777 South Crystal Drive  
Arlington, Virginia 22202

**NOTIFICATION**  
NOV 01 2006

**RE: Notification of minor changes per PR Notice 98-10**  
EPA Reg. No. 10163-~~207~~<sup>198</sup>, Betasan 12.5-G Herbicide

Dear Mr. Tompkins:

We are submitting notification to inform you of the following change that have been made to the Betasan 12.5-G label. In accordance with PR Notice 98-10, we are submitting the following to support this notification:

- EPA Form 8570-1 Application for Pesticide
- One (1) copy of the proposed label

The minor change is as follows:

We adjusted the equipment spreader settings to reflect current equipment specifications. There has been no change to the use rates.

**This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.**

Thank you very much for your help. If you have any questions or comments, please do not hesitate to contact me at (928) 819-1531.

Sincerely,



Kyla S. Smith  
Regulatory Specialist

Enclosures



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

Company/Product Number 0163-204 148	2. EPA Product Manager Jim Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
Company/Product (Name) betasan 12.5-G	PM# 25	
Name and Address of Applicant (Include ZIP Code) Bowen Company P.O. Box 5569 Tucson, AZ 85366 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

**NOTIFICATION**

NOV 01 2006

Equipment spreader settings adjusted on label

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> Text <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Kyla S. Smith	Title Registration	Telephone No. (Include Area Code) 928-819-1531
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#### Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received  
(Stamped)

2. Signature 	3. Title Registration Specialist
4. Typed Name Kyla S. Smith	5. Date 10-5-06

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# Betasan<sup>®</sup> 12.5G

Granular Selective Herbicide with Preemergent Applications Intended to Control Crabgrass and Annual Bluegrass in Turf

<b>ACTIVE INGREDIENT:</b>	<b>% By Wt.</b>
Bensulide: S-(O,O-Diisopropyl phosphorodithioate) ester of N-(2-mercaptoethyl) benzenesulfonamide .....	12.5%
<b>OTHER INGREDIENTS</b> .....	87.5%
	<b>TOTAL 100.0%</b>

This product contains 12.5 pounds of bensulide per 100 pounds.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**NOTIFICATION  
NOV 01 2006**

<b>FIRST AID</b> Organophosphate Insecticide	
<b>If on Skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.	

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

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

**Applicators using a push type spreader and all loaders must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate or viton ≥ 14 mil.
- Shoes plus socks
- A NIOSH-approved respirator with any N, R, P, or HE filter

**All other applicators and handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate or viton ≥ 14 mil.
- Shoes plus socks
- A NIOSH approved respirator with any N, R, P, or HE filter

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

NET CONTENTS \_\_\_\_\_ POUNDS

EPA Reg. No: 10163-198  
EPA Est. No: 66196-CA-1



Produced For:  
Gowan Company  
P.O. Box 5569  
Yuma, Arizona 85366-5569

**USER SAFETY RECOMMENDATIONS**

- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This chemical is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from the treated area. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This product may impair reproduction in birds if used during the breeding season.

WEEDS CONTROLLED	
Smooth Crabgrass ( <i>Digitaria ischaemum</i> )	Goosegrass ( <i>Eleusine indica</i> )
Large Crabgrass ( <i>Digitaria sanguinalis</i> )	Annual bluegrass ( <i>Poa annua</i> )
Redroot pigweed ( <i>Amaranthus retroflexus</i> )	Shepherdspurse ( <i>Capsella bursa-pastoris</i> )
Barnyardgrass (Watergrass) ( <i>Echinochloa</i> spp.)	Deadnettle (Henbit) ( <i>Lamium</i> spp.)
Lambsquarters ( <i>Chenopodium album</i> )	

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes on golf courses, or lawns and grounds.

**GENERAL INFORMATION**

Use Betasan 12.5G on home lawns and other annual weeds. Application of this product must precede the emergence of weeds from the soil. Crabgrass will emerge from the soil from 4-6 weeks before it is visible above the lawn sod. If weeds are visible above the soil, it is too late to apply BETASAN 12.5-G. Remove leaves, dead or tall grass, and other debris before applying this product to the turfgrass.

**GENERAL USE PRECAUTIONS AND RESTRICTIONS**

**ENTRY RESTRICTIONS**

**IMPORTANT: THIS PRODUCT WILL NOT WORK UNLESS IT IS WATERED IN FOR 10-15 MINUTES AFTER APPLICATION. FOR SAFETY REASONS, WATER THIS PRODUCT IN AS SOON AS POSSIBLE FOLLOWING APPLICATION FOR 10-15 MINUTES AND DO NOT ALLOW CHILDREN OR PETS ON TREATED AREAS UNTIL DRY FOLLOWING THE WATERING.**

**APPLICATION RESTRICTIONS**

**WATERING-IN MUST BE PERFORMED BY THE COMMERCIAL APPLICATOR OR THE COMMERCIAL APPLICATOR MUST PROVIDE THE ABOVE WATERING-IN INSTRUCTIONS TO THE RESIDENT IN WRITING USING BOLD-FACE TYPE AND/OR RED PRINT OR OTHER METHODS TO ENSURE THE WARNING IS PROMINENTLY DISPLAYED ON THE MATERIAL PROVIDED TO THE RESIDENT.**

- Aerial application is prohibited
- Do not allow this product to drift
- Chemigation is restricted to Arizona and California only.
- Do not apply this product in a way that will contact people or pets.
- Do not apply this product in a way that will contact workers or other persons.
- For use only on golf courses (greens, tees and bentgrass fairways only) and on residential lawns.
- Do not use on parks, recreational areas, or other public sites.
- Applications on bentgrass fairways are limited to the following states: OH, PA, NY, MI, CT, MA, IN, IL, NJ, WV, MN, WI, VT, NH, RI, DE, MD, VA. Applications on bentgrass fairways may only be made in the fall and are limited to one application per year.
- Applications to greens and tees are limited to two per year.
- Read all directions before using this product
- BETASAN 12.5-G should be used only for EPA-registered sites and at specified use rates.
- Do not allow children or pets on treated lawn until this product has been watered into the soil, and the grass is completely dry.
- BETASAN 12.5-G is recommended for use on mineral soils only.
- Do not apply peat moss to lawns before treating with BETASAN 12.5-G.

**APPLICATION INSTRUCTIONS**

The most effective program for control of crabgrass, goosegrass, annual bluegrass and other annual weeds is designed for local conditions. Two or more applications per year at specified application rates for a particular weed problem may be necessary. For additional information regarding timing and rate of application, consult weed specialists of the State Agricultural Extension Service or the State Agricultural Experiment Station.

**Grass Lawns:** BETASAN 12.5-G should be applied to well established lawns only. This product can be used on the following established turfgrasses: Bahiagrass, Bentgrass spp., Bermudagrass spp., Perennial bluegrass, Centipedegrass, Fescue spp., Paspalum bahiagrass, Perennial ryegrass, Rough stalk bluegrass (*Poa trivialis*), St. Augustinegrass, Red top, and Zoysiagrass. Betasan has been used safely on many Bentgrass cultivars. Since all cultivars have not been evaluated the user is urged to test the product on new cultivars with caution and on a small scale basis.

**Dichondra Lawns:** BETASAN 12.5-G can be applied to dichondra lawns at the time of seeding or anytime thereafter.

For the control of crabgrass, apply this product at the recommended rate anytime from fall (September or October) through early spring for spring and summer control. With a late winter or early spring application, the application must be made prior to the crabgrass emergence.

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For the control of annual bluegrass and other annual weeds, apply BETASAN 12.5-G at the recommended rates before the weeds emerge from the soil.

When the germination of crabgrass, annual bluegrass, and other weeds extends into the late summer and early fall a second application of BETASAN 12.5-G at the recommended rate should be made 4-5 months after the initial application.

This product may only be applied by tractor-drawn spreader or by push type spreader. Uniform applications can be made by spreading one-half the required amount of product over the area to be treated. Then, apply the remainder of the product at right angles or perpendicular to the pattern of the first application.

**APPLICATION RATES**

Apply a maximum of 200 pounds of BETASAN 12.5-G per acre per year in two or more applications depending upon the weed species and the degree of infestation. Or, the equivalent maximum rate is 4.6 pounds of BETASAN 12.5-G per 1000 sq. ft. per year.

If weed specialists are unavailable to provide specific local recommendations, follow these directions.

**Crabgrass only:** Apply uniformly 80 pounds of BETASAN 12.5-G per acre. Or, apply 1.8 pounds of BETASAN 12.5-G per 1000 sq. ft.

**Annual Bluegrass, Goosegrass, and Other Annual Weeds:** Apply uniformly 100 pounds of BETASAN 12.5-G per acre. Or, apply 2.3 pounds of BETASAN 12.5-G per 1000 sq. ft.

**APPLICATION RATES PER ACRE FOR BETASAN 12.5-G.**

Application Schedule	POUNDS OF BETASAN 12.5G	
	Crabgrass only	Annual bluegrass, barnyardgrass, fall panicum, foxtails, and other annual weeds
Single application	80	100
Sequential applications	80	100

**APPLICATION RATES PER 1000 SQ. FT. FOR BETASAN 12.5-G.**

Application Schedule	POUNDS OF BETASAN 12.5G	
	Crabgrass only	Annual bluegrass, barnyardgrass, fall panicum, foxtails, and other annual weeds.
Single application	1.8	2.3
Sequential applications	1.8	2.3

Sprinkle or irrigate the treated area with water for 10-15 minutes after application to wash the BETASAN 12.5-G into the soil.

**SPREADER SETTINGS FOR TYPES OF EQUIPMENT**  
(Settings are for tractor-drawn or push type spreaders only)

Make of Spreader	Rate per Acre	Rate per 1,000 sq.ft.	Settings with 1 Trip per application	Settings with 2 Trips per application	Pattern Width
Cyclone	80	1.8 lbs.	2.6	2.3	6 ½ ft.
	100	2.3 lbs.	2.8	2.5	6 ½ ft.
Scott's	100	2.3 lbs.	3.5	2.5	
Central #1615A	100	2.3 lbs.	4	3	
Central #1665	100	2.3 lbs.	5 ½	4 ½	
Earthway	80	1.8 lbs.	10 + 4 notches		7 ft.
	100	2.3 lbs.	10 + 2 notches		7 ft.
Scotts	80	1.8 lbs.	F-G		9 ft.
	100	2.3 lbs.	G		9 ft.
Lesco	80	1.8 lbs.	F		9 ft.
	100	2.3 lbs.	H-3		9 ft.
Spiker	80	1.8 lbs.	2-9		7 ft.
	100	2.3 lbs.	3.1		7 ft.
Scotts (Andersons) (LESCO Key Setting)	80 lbs.	1.8 lbs.	I		9 ft.
	80 lbs.	1.8 lbs.	11		9 ft.
Scotts (Andersons) (LESCO Key Setting)	100 lbs.	2.3 lbs.	J		9 ft.
	100 lbs.	2.3 lbs.	13		9 ft.
LESCO (LESCO Key Setting)	80 lbs.	1.8 lbs.	G		9 ft.
	80 lbs.	1.8 lbs.	10		9 ft.
LESCO (LESCO Key Setting)	100 lbs.	2.3 lbs.	H		9 ft.
	100 lbs.	2.3 lbs.	11		9 ft.
Earthway (LESCO Key Setting)	80 lbs.	1.8 lbs.	8		7 ft.
	80 lbs.	1.8 lbs.	6		7 ft.
Earthway (LESCO Key Setting)	100 lbs.	2.3 lbs.	10		7 ft.
	100 lbs.	2.3 lbs.	8		7 ft.

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### RESEEDING

Herbicides that provide effective control of annual grasses may affect new lawn grass seedlings which germinate after treatment. Proper fertilization and watering will encourage the existing turfgrass to fill in the thin or bare spots formerly occupied by crabgrass.

The following procedures are suggested to minimize any stunting of turfgrass which may occur when reseeding into areas treated with BETASAN 12.5-G:

1. Do not reseed within 4 months after application.
2. Renovate the area to be seeded by raking thoroughly to scarify the soil surface. Where practical, mix peat into the soil to provide an optimum seedbed.
3. When turf diseases or physiological disorders require reseeding sooner than 4 months after the application of this product, apply powdered activated charcoal prior to reseeding to deactivate the bensulide.
4. Apply the activated charcoal at 7 pounds per 1000 sq. ft. in 14 gallons of water. Or the equivalent rate is 300 pounds of activated charcoal per acre in 600 gallons of water
5. Following application, irrigate the turf with sufficient water to wash the charcoal into the soil.
6. Reseed no sooner than 7 days after applying the charcoal.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place. Avoid contamination of food, feed, or domestic animal water supplies.

**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 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.

**FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300.**

For other product information, contact Gowan Company or see Material Safety Data Sheet.

### NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund

Our recommendations for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company. To the extent consistent with applicable law, all such risks are assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY

TO THE FULLEST EXTENT PERMITTED BY LAW, GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY'S SOLE DISCRETION.

Betasan® is a registered trademark of Snygenta Crop Protection, Inc.

EPA Text Notification: Betasan 12.5G (Notif to EPA 10-23-06)