

10163-205

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

11-22-2000

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NOV 22 2000

Terre R. Farrell  
Registration Specialist  
GOWAN COMPANY  
P. O. Box 5569  
Yuma, AZ 85366

SUBJECT: Label Amendment - Interim Reregistration Eligibility Document  
Betasan Handy Spray Crabgrass Preventer, EPA Reg. No. 10163-205  
Your Letter Dated October 12, 2000

The above mentioned amendment submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable provided you make the required changes listed below:

1. The EPA Registration Number should read "EPA Reg. No. 10163-205".
2. The following statement should be placed on the label:  
  
"For use on residential lawns only".
3. It is recommended that the "Statement of Practical Treatment" be changed to "First Aid" and placed on the front panel directly under the header "Precautionary Statement" and revised as follows:

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.

## CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	MINOR, E.							
DATE ▶	Nov 20, 2000							

If in eyes:

- 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.
- Call a poison control center or doctor for treatment advice.

If on skin:

- 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:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

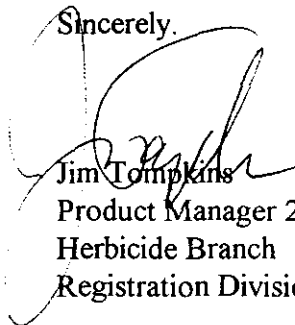
Have the product container or label with you when calling a poison control center or doctor or going for treatment.

3. It is recommended that the "Note to Physician" and any other "Notes" be placed directly below the "First Aid" section.
4. In the "First Aid" statement remove the statement "Note to Medical Personnel".
5. Add the following section directly after the "Environmental Hazards" section:  
  
"Physical Hazards"  
"Combustible. do not use product or store container near heat or open flame."
6. Add the "Direction For Use" heading after the "Physical Hazards" section.
7. It is recommended that the "General Use Precautions" subheading be changed to "General Use Precautions and Restrictions" and placed under the "Direction For Use" and all precautions and restrictions be placed in this section.
8. It is recommended that the "Product Information" heading be changed to "General Information" and placed as a subheading under the "Direction For Use" section.

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Submit one (1) copy of your final printed labeling before you release the product for shipment. The amended labeling supersede all previously accepted ones. A stamp copy of the labeling is enclosed for your records.

Sincerely,



Jim Tompkins  
Product Manager 25  
Herbicide Branch  
Registration Division (7505C)

Enclosure

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# Handy Spray BETASAN® Crabgrass Preventer

For Pre-emergence Crabgrass Control  
SINGLE USE DISPOSABLE CONTAINER

## ACTIVE INGREDIENT:

Bensulfide: S-(0,0-diisopropyl phosphorodithioate) ester of  
N-(2-mercaptoethyl) benzenesulfonamide

## INERT INGREDIENTS:

## % By Wt.

46.0%

54.0%

TOTAL 100.0%

## KEEP OUT OF REACH OF CHILDREN CAUTION

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

Harmful if swallowed. Avoid breathing dust. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before re-use. Avoid contamination of food, feed and water supplies.

### STATEMENT OF PRACTICAL TREATMENT

If a known exposure occurs or is suspected, immediately start the procedures given below and simultaneously contact a Poison Control Center, a physician, or the nearest hospital.

**NOTE:** Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor. Describe the type of exposure, the victim's symptoms, and follow the advice given.

**NOTE TO MEDICAL PERSONNEL:** Should cholinesterase inhibition occur, atropine by injection is antidotal. 2-PAM (Proton Chloride) is also antidotal when administered early and in conjunction with atropine.

**IF SWALLOWED:** Give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

**IF ON SKIN:** Flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation occurs.

**IF IN EYES:** Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

**IF INHALED:** Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

**NOTE TO PHYSICIAN:** Should cholinesterase inhibition occur, atropine by injection is antidotal. 2-PAM (protopam chloride) is also antidotal when administered early and in conjunction with atropine.

### 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 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.

Do not apply directly to water, or to area where water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product may impair reproduction in birds if used during the breeding season.

### GENERAL USE PRECAUTIONS

Read all directions before using.

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

**IMPORTANT: THIS PRODUCT WILL NOT WORK UNLESS IT IS WATERED IN FOR 10-15 MINUTES. 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.**

EPA Reg. No. 10163-196  
EPA Est. No. 34704-MS-1

**Gowan**

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

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

NOV 22 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

10163-205

Do not apply this product in a way that will contact people or pets.  
This product may only be applied by a push-type spreader. Hand-held rotary broadcast spreaders are prohibited.

Betasan should be used only for recommended uses and at recommended rates. Do not allow children or pets on treated lawns until Betasan has been watered into the soil and the grass is completely dry. Betasan is recommended for use on mineral soils only. Do not apply peat moss to lawn, ground covers or established ornamentals before treating with Betasan.

#### PRODUCT INFORMATION

Betasan is recommended for use on home lawns or ornamental plants and on ground covers for control of crabgrass, annual blue grass and other annual weeds listed.

Application of Betasan must precede emergence of weeds from the soil. Crabgrass will emerge from the soil from four to six weeks before it is visible above lawn sod. If weeds are visible above the soil, it is too late to apply Betasan.

Remove leaves, dead or tall grass, and other debris before applying Betasan to turf area. Any weeds present around ornamentals must be removed or worked into the soil before applying Betasan.

WEEDS CONTROLLED	
Smooth Crabgrass ( <i>Digitaria ischaemum</i> )	Goosegrass ( <i>Eleusine indica</i> )
Hairy 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> )	

#### TIMING OF APPLICATION

**GRASS LAWNS:** Betasan should be applied only to well established grass lawns. Betasan can be used on the following established turf grasses:

Bahia	Centipede	Poa Trivialis
Bentgrass Spp.	Fescue Spp.	St. Augustine
Bermudagrass Spp.	Pensacola Bahia	Red Top
Perennial Bluegrass Spp.	Perennial Ryegrass	Zoysia

**DICHONDRA LAWNS:** Betasan can be applied to dichondra lawns at the time of seeding or anytime thereafter.

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

For control of annual bluegrass and other annual weeds apply Betasan at the recommended rate (see Rates of Application) before the weeds emerge from the soil.

Consult weed specialists of the State Agricultural Extension Service for additional information, as the timing and rate of application needed will vary with local conditions.

Where germination of crabgrass, annual bluegrass, and other weeds extends into the late summer and early fall, a second application of Betasan at the recommended rates should be made four to five months after the initial application.

Betasan should be applied by a push-type spreader that will give uniform coverage. A more uniform application can be made by spreading half the required amount of Betasan over the area to be treated then applying the remainder at right angles or crosswise.

#### RESEEDING

Any material that provides effective control of annual grasses may effect new lawn grass seedlings which germinate after treatment. Proper fertilization and watering will encourage the existing turf grass to fill in the thin or bare spots formerly occupied by crabgrass.

The following procedures are suggested in order to minimize any stunting of turf grasses which may occur when reseeding into Betasan treated areas:

1. Do not reseed within 4 months after application.
2. Renovate the area to be reseeded by raking thoroughly to scarify the soil surface. Where practical, mix peat in with soil to provide an optimum seed bed.
3. When turf disease or physiological disorders necessitate reseeding sooner than 4 months after Betasan application, apply powdered activated charcoal prior to reseeding to deactivate the Betasan.

Apply the activated charcoal at a rate of 7 pounds in 14 gallons of water per 1,000 square feet. Following application, irrigate the turf with sufficient water to wash the charcoal into the soil.

Reseed no sooner than 7 days after applying the charcoal.

#### PROPER TIMING OF BETASAN APPLICATIONS

##### AN IMPORTANT HERBICIDE CONSIDERATION

Proper timing of each application of Betasan is essential to success since it is a pre-emergence selective herbicide. To be effective, it must be applied before weed seedlings break through the soil surface. This consideration is particularly important in the case of crabgrass which emerges from the soil surface four to six weeks before it is actually visible above the turf. Once crabgrass has emerged, it is too late to control it with Betasan or any other pre-emergence herbicide.

Chart below provides useful guidelines on timing of applications and rates per 1000 sq. ft. For specific information on timing in your area, consult the local weed specialist of the State Agricultural Extension Service.

#### TIMING OF APPLICATION AND RATES

REGION	SPECIES OF WEEDS		
	Crabgrass (Watergrass), Fall Panicum, Foxtails, Lambsquarter, Redroot Pigweed, Shepherdspurse	Goosegrass	Annual Bluegrass (Poa Annua) Deadnettle
Northeast Midwest Midsouth	Mid-March through April: 4.8 to 6.4 lb.	Mid-April to Mid-May: 4.6 to 6.4 lb.	Mid-July to September: 4.8 to 6.4 lb.
South	January to Mid-March: 4.8 to 6.4 lb.	March through April: 6.4 lb.	September: 4.8 lb.
West	February: 4.8 to 6.4 lb.	March: 6.4 lb.	September: 4.8 lb.
Pacific Northwest	February: 4.8 to 6.4 lb.		February and September: 8 lb. OR September: 8 lb. PLUS 2.5 lb. every 3 months

1. Higher rates should be used whenever heavy weed pressure is expected.

#### PROPER SPREADER SETTINGS AND APPLICATION RATES

This chart provides information on recommended settings for applications of Betasan pre-emergence selective herbicide. The rates given are a guideline only, and spreaders should be calibrated carefully and individually to assure application of the proper amount of product. Rates depend on the species of weeds to be controlled and the time of year when applications are made. If in doubt regarding rates for each species and timing of single or multiple applications, refer to chart below or consult local weed specialists of the State Agricultural Extension Service.

#### APPLICATION

**IMPORTANT: THESE SETTINGS ARE ONLY APPROXIMATE. AGE AND CONDITION OR SPREADER CAN CAUSE WIDE VARIATION.**

**FOR BEST RESULTS,** cover the area 2 times – in cross directions – at ½ rate. This method ensures complete coverage, as the second covering provides an opportunity for correction of possible operational errors or dial setting errors made on the first covering. Spread width given on chart are operational widths based on risk walking. Maintain an **EVEN, NORMAL PACE.** A **FASTER OR SLOWER PACE, OR TIPPING SPREADER FORWARD OR BACKWARD WILL VARY THE SPREAD WIDTH.**

#### RECOMMENDED RATES AND APPROPRIATE SPREADER SETTINGS

RECOMMENDED RATES AND APPROPRIATE SPREADER SETTINGS							
MAKE	MODEL	LBS. PER 1,000 SQ. FT.					SPREAD
BROADCAST SPREADERS		2.4	3.2	4	4.8	6.4	WIDTH
Cyclone	B1/B55	5	5 ½	5 ½	5 ¾	6	5'
Ortho	6000	4	5	6 ½	9 ½		5'
Scotts	ER-2	28	28 ½	30	31		3'
Sears	671.1987	4	4 ¼	4 ¾	5		5'
True Temper	CB1000	5 ¼	5 ¾	6	6 ¼	6 ¾	5'
DROP SPREADERS							
Ortho	5000	8 ½	9	9 ½	10	10 ½	18"
Scotts	PF-3	7 ¾	8	8 ½	10 ½	13	21"

#### STORAGE AND DISPOSAL

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

**STORAGE:** Store only in original container in a cool dry place that can be locked and is out of reach of children.

**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse empty bag. Discard bag in trash.

**SPILL OR LEAK:** Small spills can be handled routinely. Use adequate ventilation and suitable protective clothing and eye protection to prevent skin and eye contact. Sweep or shovel up spilled material and wrap in several layers of newspaper and discard in trash. Wash spill area with household detergent and flush with water to remove any residue.

#### NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

Betasan Handy Spray (KELU)  
EPA Text Pending 10-13-60