

JUL 31 1995

Mr. William M. Mahlburg  
Platte Chemical Co.  
419 18th St.  
P.O. Box 667  
Greeley, CO. 80632

Dear Mr. Mahlburg:

Subject: Response to PR Notice 93-7  
Clear Crop® Betasan 7-G  
EPA Reg. No. 34704-208  
Your submission dated July 3, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable and a stamped copy is enclosed for your records.

Sincerely yours,

Robert J. Taylor  
Product Manager 25  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

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ACCEPTED  
in EPA Letter Dated:

JUL 31 1995

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

34704-208



# BETASAN<sup>®</sup> 7-G

Granular Selective Herbicide for Pre-Emergence Control of Crabgrass and Annual Bluegrass in Turf, Ornamentals, and Ground Covers.

**ACTIVE INGREDIENT:**

Bensulide: S-(O,O-Diisopropyl phosphorodithioate) ester of N-(2-mercaptoethyl) benzenesulfonamide . . . . 7.0%

**INERT INGREDIENTS:** . . . . . 93.0%

TOTAL 100.0%

Contains 7 Pounds of Active Ingredient Per 100 Pounds.

## KEEP OUT OF REACH OF CHILDREN WARNING

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS  
EPA REG. NO. 34704-208 EPA EST. NO. 34704-NB-1

NET WEIGHT \_\_\_\_\_ LBS. ( \_\_\_\_\_ KG)

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States of America Patent No.: 3,205,253.

36913 BETASAN<sup>®</sup> is a registered trademark of The ICI Group 10P93

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

- \* Harmful if swallowed.
- \* Avoid breathing dust.
- \* Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses when handling.
- \* Wash thoroughly with soap and water after handling and before eating or smoking.
- \* Wash all contaminated clothing with soap and hot water before re-use.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish. For terrestrial uses, 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 apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

### STATEMENT OF PRACTICAL TREATMENT

CALL A PHYSICIAN IMMEDIATELY! If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately initiate the recommended procedures described below and simultaneously contact a physician, the nearest hospital or a Poison Control Center.

Inform the person contacted of the type and extent of exposure, describe the victim's symptoms and follow the advice given.

NOTE: Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor and follow the advice given.

NOTE TO PHYSICIAN: Exposure to the active ingredient may cause cholinesterase inhibition. Atropine by injection is antidotal. 2-PAM is also antidotal when administered early and in conjunction with atropine.

IF SWALLOWED: Call a physician or Poison Control Center immediately. Immediately give large amounts of water and induce vomiting by gagging the victim with a finger placed on the back of the victim's tongue. Give water until vomitus is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, preferably with a physician's advice.

IF ON SKIN: Flush with plenty of water for at least 15 minutes. Remove clothing and shoes. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.

IF IN EYES: Hold eyelids apart and flush eyes with large amounts of running water for at least 15 minutes. Get medical attention.

### DIRECTIONS FOR USE

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

Avoid contamination of food, feed, or water supplies.

### STORAGE AND DISPOSAL

**PROHIBITION:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

**STORAGE:** Store in safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Reduce stacking height where local conditions, such as humidity or pallet overhang, can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

**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.

### GENERAL USE PRECAUTIONS

- \* READ ALL DIRECTIONS BEFORE USING.
- \* BETASAN 7-G should be used only for recommended uses and at recommended rates.
- \* Sweep up spills on walks of patios and hose area.
- \* Do not allow children or pets on treated lawns until BETASAN 7-G has been watered into the soil and grass is completely dry.
- \* BETASAN 7-G is recommended for use on mineral soils only.
- \* Do not apply peat moss to lawn, ground covers or established ornamentals before treating with BETASAN 7-G.

### PRODUCT INFORMATION

BETASAN 7-G is recommended for use on home lawns, parks and golf courses, on ornamental plants and on ground covers for control of crabgrass, annual bluegrass and other annual weeds listed. 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 or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds. Application of BETASAN 7-G must precede emergence of weeds from the soil. Crabgrass will emerge from the soil 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 7-G.

Remove leaves, dead or tall grass, and other debris before applying BETASAN 7-G to turf areas. Any weeds present around ornamentals must be removed or worked into soil before applying BETASAN 7-G.

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**BETASAN® 7-G**  
EPA REG. NO. 34704-208

**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 ( <i>Watergrass</i> ) ( <i>Echinochloa spp.</i> )	Deadnettle ( <i>Henbit</i> ) ( <i>Lamium spp.</i> )
Lambsquarters ( <i>Chenopodium album</i> )	

**TIMING OF APPLICATION**

The most effective program for control of crabgrass, goosegrass, annual bluegrass and other annual weeds is one specifically designed for local conditions. Two or more applications per year may be necessary, using the recommended rates given below for a particular weed problem. 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 7-G should be applied only to well established grass lawns. BETASAN 7-G can be used on the following established turf grasses:

Bahia	Centipede	Poa trivialis
Benigrass spp.	Fescue spp.	Saint Augustine
Bermudagrass spp.	Pensacola Bahia	Red Top
Perennial Bluegrass spp.	Perennial Ryegrass	Zoysia

**DICHONDRA LAWNS:** BETASAN 7-G can be applied to dichondra lawns at the time of seeding or any time thereafter.

**ORNAMENTALS AND GROUND COVERS:** BETASAN 7-G should be applied only to the following well established ornamentals and ground covers:

Alyssum	Coral Bell	Stock
Aster	Daisy	Sweet Pea
Bachelor's Button	Marigold	Wall Flower
Calendula	Pansy	Zinnia
Candy-Tuft	Primrose	Ranunculus
Daffodil	Gladiolus	Tulip
Dahlia	Narcissus	Pyracantha
Freesia	Juniper	Sandankwa
Abelia	Monterey Cypress	Star Jasmine
Azalea	Monterey Pine	Tobira
Azara	Myrtle	Xylosma
Boxwood	Privet	Periwinkle
Daphne	Hypericum	Sedum
Holly	Ice Plant	Wild Strawberry
Ajuga	Ivy	
Campanula	Pachysandra	
Gazania		

For control of crabgrass, apply BETASAN 7-G at the recommended rate (see RATES OF APPLICATION) any time from fall (September or October) through early spring, for spring and summer control. With a late winter or an 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 7-G at the recommended rate (see RATES OF APPLICATION) before the weeds emerge for the soil.

Where germination of crabgrass, annual bluegrass, and other weeds extends into the late summer and early fall, a second application of BETASAN 7-G at the recommended rate should be made four to five months after the initial application.

BETASAN 7-G should be applied with a lawn spreader or any other applicator that will give uniform coverage. A more uniform application can be made by spreading half the required amount of BETASAN 7-G over the area to be treated, then applying the remainder at right angles or crosswise. Avoid misses by overlapping slightly.

**RATES OF APPLICATION**

Apply a maximum of 357 pounds of BETASAN 7-G per acre (8.2 pounds per 1,000 square feet) per year in two or more applications depending on the weed species and degree of infestation.

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

**CRABGRASS ONLY:** Apply 107 to 143 pounds of BETASAN 7-G uniformly on one acre (2.4-3.2 pounds per 1,000 square feet).

**ANNUAL BLUEGRASS, GOOSEGRASS AND OTHER ANNUAL WEEDS:** Apply 180 pounds of BETASAN 7-G uniformly on one acre (10 pounds per 2,500 square feet).

Sprinkle the area with water for 10 to 15 minutes after application to wash the BETASAN 7-G down into the soil where the weed seeds are located.

When a weed control program involves two to three applications of BETASAN 7-G for crabgrass, goosegrass and annual bluegrass, the rate of application for goosegrass and annual bluegrass may be reduced to 107 pounds to 143 pounds per acre, using the higher rate for heavier infestations.

**BETASAN 7-G RATE TABLE  
AND SPREADER SETTINGS**

Make of Spreader	Desired Rate Per Acre	Desired Rate Per 1,000 Sq. Ft.	Spreader Settings		Spread Width
			Once Over	Twice Over	
Cyclone	107 lbs.	2.4 lbs.	3.3	3.0	6 1/2 ft.
	180 lbs.	4.1 lbs.	3.8	3.5	6 1/2 ft.
Scott	107 lbs.	2.4 lbs.	2.8	2.2	20 in.
	180 lbs.	4.1 lbs.	3.8	3.1	20 in.

**RESEEDING**

Any material that provides effective control of annual grasses may affect 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 7-G 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 the soil to provide an optimum seed bed.
3. When turf diseased or physiological disorders necessitate reseeding sooner than 4 months after BETASAN 7-G application, apply powdered activated charcoal prior to reseeding to deactivate the BETASAN 7-G.

Apply the activated charcoal at a rate of 7 pounds per 1,000 square feet in 14 gallons of water (300 pounds per acre in 600 gallons of water).

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.

**NOTICE**

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. PLANT INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER. EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE.

FORMULATED FOR  
PLATTE CHEMICAL CO.

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