

CLICK HERE TO JUMP TO USE DIRECTIONS



READ THE ENTIRE LABEL FIRST. OBSERVE ALL PRECAUTIONS AND FOLLOW DIRECTIONS CAREFULLY.

PRE-SAN[®] GRANULAR 12.5G

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

ACTIVE INGREDIENT:

Bensulide: S-(0,0-Diisopropyl phosphorodithioate) ester of N-(2-mercaptoethyl) benzenesulfonamide 12.5%

OTHER INGREDIENTS: 87.5%
100.0%

Contains 12.5 pounds of active ingredient per 100 pounds.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See below for additional Precautionary Statements.

| FIRST AID Organophosphate Insecticide | |
|---|---|
| If on skin or clothing: | <ul style="list-style-type: none"> 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 in eyes: | <ul style="list-style-type: none"> 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. Call a poison control center or doctor for treatment advice. |
| If swallowed: | <ul style="list-style-type: none"> 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. |
| If inhaled: | <ul style="list-style-type: none"> 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 treatment advice. |
| HOT LINE NUMBER: 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. | |
| NOTE TO PHYSICIAN: 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 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 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 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.

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 cleaning 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.

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, or on golf courses, or lawns and grounds.

GENERAL USE PRECAUTIONS AND RESTRICTIONS

ENTRY RESTRICTIONS

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.

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 course (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.
- PRE-SAN GRANULAR 12.5G 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.
- PRE-SAN GRANULAR 12.5G is recommended for use on mineral soils only.
- Do not apply peat moss to lawns before treating with PRE-SAN GRANULAR 12.5G.

PRODUCT INFORMATION

Use PRE-SAN GRANULAR 12.5G on home lawns and golf courses for control of crabgrass, annual bluegrass and other annual weeds listed.

Application of PRE-SAN GRANULAR 12.5G 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 PRE-SAN GRANULAR 12.5G.

Remove leaves, dead or tall grass, and other debris before applying PRE-SAN GRANULAR 12.5G to the turfgrass.

WEEDS CONTROLLED

- Smooth Crabgrass (*Digitaria ischaemum*)
- Large Crabgrass (*Digitaria sanguinalis*)
- Redroot Pigweed (*Amaranthus retroflexus*)
- Barnyardgrass (Watergrass) (*Echinochloa crus-galli*)
- Lambsquarters (*Chenopodium album*)
- Goosegrass (*Eleusine indica*)
- Annual Bluegrass (*Poa annua*)
- Shepherdspurse (*Capsella bursa-pastoris*)
- Deadnettle (Henbit) (*Lamium* spp.)

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: PRE-SAN GRANULAR 12.5G should be applied to well established lawns only. PRE-SAN GRANULAR 12.5G can be used on the following established turfgrasses:

- | | |
|--------------------------|---|
| Bahiagrass | Pensacola Bahiagrass |
| Bentgrass spp. | Perennial Ryegrass |
| Perennial Bluegrass spp. | Roughstalk Bluegrass (<i>Poa trivialis</i>) |
| Bermudagrass spp. | St. Augustinegrass |
| Centipedegrass | Redtop |
| Fescue spp. | Zoysiagrass |

PRE-SAN GRANULAR 12.5G 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: PRE-SAN GRANULAR 12.5G can be applied to dichondra lawns at the time of seeding or any time thereafter.

For control of crabgrass, apply PRE-SAN GRANULAR 12.5G at the recommended rate 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.

For control of annual bluegrass and other annual weeds, apply PRE-SAN GRANULAR 12.5G at the recommended rate) 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

PRE-SAN GRANULAR 12.5G at the recommended rate should be made four to five 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 of the required amount of PRE-SAN GRANULAR 12.5G over the area to be treated. Then, apply the remainder of PRE-SAN GRANULAR 12.5G at right angles or perpendicular to the pattern of the first application.

APPLICATION RATES

Apply a maximum of 200 pounds of PRE-SAN GRANULAR 12.5G per acre per year in two or more applications depending upon the weed species and degree of infestation. Or, the equivalent maximum rate is 4.6 pounds of PRE-SAN GRANULAR 12.5G per 1,000 sq. ft. per year.

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

CRABGRASS ONLY: Apply uniformly 80 pounds of PRE-SAN GRANULAR 12.5G per acre. Or, apply 1.8 pounds of PRE-SAN GRANULAR 12.5G per 1,000 sq. ft.

ANNUAL BLUEGRASS, GOOSEGRASS AND OTHER ANNUAL WEEDS: Apply uniformly 100 pounds of PRE-SAN GRANULAR 12.5G per acre. Or, apply 2.3 pounds of PRE-SAN GRANULAR 12.5G per 1,000 sq. ft.

Application rates per acre for PRE-SAN GRANULAR 12.5G

| Application Schedules | Amounts of Product, Pounds per Acre | |
|-------------------------|-------------------------------------|---|
| | Crabgrass only | Annual bluegrass, barnyardgrass, fall panicum, foxtails, and other annual weeds |
| Single application | 80 | 100 |
| Sequential applications | 80 | 100 |

Application rates per 1,000 sq. ft. for PRE-SAN GRANULAR 12.5G

| Application Schedules | Amounts of Product, Pounds per 1,000 sq. ft. | |
|-------------------------|--|---|
| | 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 PRE-SAN GRANULAR 12.5G into the soil.

PRE-SAN GRANULAR 12.5G RATE SPREADER SETTINGS

| 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 lbs. | 1.8 lbs. | 2.6 | 2.3 | 6½ ft. |
| | 100 lbs. | 2.3 lbs. | 2.8 | 2.5 | 6½ ft. |
| Scott | 100 lbs. | 2.3 lbs. | 3.5 | 2.5 | — |
| | Central #1615A | 100 lbs. | 2.3 lbs. | 4 | 3 |
| Earthway | 100 lbs. | 2.3 lbs. | 5½ | 4½ | — |
| | 80 lbs. | 1.8 lbs. | 10 + 4 notches | — | 7 ft. |
| Scotts | 100 lbs. | 2.3 lbs. | 10 + 2 notches | — | 7 ft. |
| | 80 lbs. | 1.8 lbs. | F-G | — | 9 ft. |
| Lesco | 100 lbs. | 2.3 lbs. | G | — | 9 ft. |
| | 80 lbs. | 1.8 lbs. | F | — | 9 ft. |
| Spiker | 100 lbs. | 2.3 lbs. | H-3 | — | 9 ft. |
| | 80 lbs. | 1.8 lbs. | 2.9 | — | 7 ft. |
| | 100 lbs. | 2.3 lbs. | 3.1 | — | 7 ft. |

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 in order to minimize any stunting of turfgrass which may occur when reseeding into PRE-SAN GRANULAR 12.5G 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 seedbed.
3. When turf diseases or physiological disorders necessitate reseeding sooner than 4 months after PRE-SAN GRANULAR 12.5G application, apply powdered activated charcoal prior to reseeding to deactivate the bensulide.
4. Apply the activated charcoal at 7 pounds per 1,000 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 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.

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.

625/4-2004 AP072302
EPA REG. NO. 10163-198-2217

Distributed By



An Employee-Owned Company

**1217 West 12th Street
Kansas City, Missouri 64101**

www.pbigordon.com