

17.5 961-336 17

NET CONTENTS: XX GALLONS
TREATS (OR COVERS): XX SQ. FT.

LEBANON

BETASAN® 4E

Emulsifiable Liquid

ACCEPTED
JAN 27 1995
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registration number EPA Reg. No. 961-336

Selective Herbicide for Preemergence Control of Crabgrass and Annual Bluegrass in Turf, Ornamentals and Groundcovers

ONLY FOR SALE TO, USE AND STORAGE BY SERVICE PERSONS

ACTIVE INGREDIENT:

Bensulide: S-(0,0-Diisopropyl phosphorodithioate) ester of N-(2-Mercaptoethyl) benzenesulfonamide 46.0%

INERT INGREDIENTS: 54.0%

TOTAL: 100.0%

Contains 4 Pounds of Active Ingredient Per Gallon.

BETASAN® is a Registered TM of Zeneca, Inc.
Patent No.: 3,205,253

EPA Reg. No. 961-336

EPA Est. 2217-KS-1

KEEP OUT OF REACH OF CHILDREN
CAUTION
See back panel for additional Precautionary Statements

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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, or call day or night:

(800-424-9300)

PESTICIDE TEAM SAFETY NETWORK

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: DO NOT induce vomiting. Immediately call a physician or Poison Control Center. Give large quantities of water and get medical attention. If vomiting occurs, give fluids again. Never 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 contaminated clothing and shoes. Get medical attention if irritation occurs. Wash clothing before re-use.

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

See Back Panel for Additional Precautionary Statements

MANUFACTURED BY:

Lebanon Chemical Corporation

Lebanon, PA 17042

Net contents: XX gallon(s)

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

Harmful if swallowed or absorbed through the skin. Avoid breathing spray mists. 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 or water supplies.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. 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 by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated.

PHYSICAL/CHEMICAL HAZARDS

Combustible. Do not use, store, pour or spill near heat or open flame. Keep container closed when not in use.

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 TURF BEING GROWN FOR SALE OR OTHER COMMERCIAL USE AS SOD, OR FOR COMMERCIAL SEED PRODUCTION OR FOR RESEARCH PURPOSES.

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 MODIFICATIONS AND BEING GROWN IN ORNAMENTAL GARDENS OR PARKS OR ON GOLF COURSES OR LAWNS AND GROUNDS.

GENERAL USE PRECAUTIONS

- ✓ Read all directions before using.
- ✓ Mix well before diluting with water.
- ✓ This product should be used only for recommended uses and at recommended rates.
- ✓ Clean up spills on walks or patios by covering with dry soil or absorptive material. Bury sweepings and hose area.
- ✓ Immediately follow this herbicide application by applying 1/2 to 1 inch of water.
- ✓ Do not allow children or pets on treated lawns until grass is completely dry.
- ✓ This product is recommended for use on mineral soils only.
- ✓ Do not apply peat moss to lawn, groundcovers or established ornamentals before treating with this product.

PRODUCT INFORMATION

This product is recommended for use on home lawns, parks and golf courses, on ornamental plants and on groundcovers for control of crabgrass, annual bluegrass and other annual weeds listed.

Application of this product must precede emergence of weeds from the soil. Crabgrass will emerge from the soil from 4 to 6 weeks before it is visible above lawn sod. If weeds are visible above the soil, it is too late to apply this product.

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

WEEDS CONTROLLED

Annual Bluegrass (<i>Poa annua</i>)	Hairy Crabgrass (<i>Digitaria sanguinalis</i>)
Barnyardgrass (Watergrass) (<i>Echinochloa spp.</i>)	Lambsquarters (<i>Chenopodium album</i>)
Deadnettle (Henbit) (<i>Lamium spp.</i>)	Redroot Pigweed (<i>Amaranthus retroflexus</i>)
Fall Panicum (<i>Panicum dichotomiflorum</i>)	Shepherdspurse (<i>Capsella bursa-pastoris</i>)
Foxtails (<i>Setaria spp.</i>)	Smooth Crabgrass (<i>Digitaria ischaemum</i>)
Goosegrass (<i>Eleusine indica</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 of the State Agricultural Experiment Station.

GRASS LAWNS: This product should be applied only to well-established grass lawns. It can be used on the following established turfgrasses:

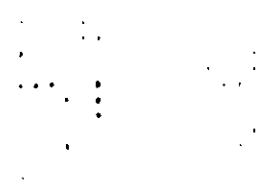
- | | |
|--------------------------|---|
| Bahiagrass | Pensacora Bahiagrass |
| Bentgrass spp. | Perennial Ryegrass |
| Perennial Bluegrass spp. | Roughstalk bluegrass (<i>Poa trivialis</i>) |
| Bermudagrass spp. | St. Augustinegrass |
| Centipedegrass | Red Top |
| Fescue spp. | Zoysiagrass |

DICHONDRA LAWNS: This product can be applied to dichondra lawns at the time of seeding or any time thereafter

ORNAMENTALS AND GROUNDCOVERS: This product should be applied only to the following well-established ornamentals and groundcovers

- | | | |
|-------------------|------------------|-----------------|
| Alyssum | Coral Bell | Sweet Pea |
| Aster | Daisy | Wallflower |
| Bachelor's Button | Marigold | Zinnia |
| Calendula | Pansy | Ranunculus |
| Candytuft | Primrose | Tulip |
| Daffodil | Giaciclus | Pyranantha |
| Danlia | Narcissus | Sandankwa |
| Freesia | Juniper | Star Jasmine |
| Abelia | Monterey Cypress | Tobira |
| Azalea | Monterey Pine | Xyiosma |
| Azara | Myrtle | Periwinkle |
| Boxwood | Privet | Sedum |
| Daphne | Hypericum | Wild Strawberry |
| Holly | Ice Plant | |
| Ajuga | Ivy | |
| Campanula | Pachysandra | |
| Gazania | Stock | |

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For control of crabgrass, apply this product 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 this product at the recommended rate (see **RATES OF APPLICATION**) before weeds emerge from the soil. Where germination of crabgrass, annual bluegrass and other annual weeds extends into the late summer and early fall, a second application of this product at the recommended rates should be made 4 to 5 months after the initial application. This product should be applied with spray equipment that will provide uniform applications such as a knapsack sprayer, hose proportioner or pressure sprayer.

RATES OF APPLICATION

Apply a maximum of 6 1/4 gallons (50 pints) of this product per acre (18 fluid ounces 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 1 7/8 gallons (15 pints) to 2.5 gallons (20 pints) of this product in 60 to 100 gallons of water uniformly on one acre (5.5 to 7.3 fluid ounces per 1,000 square feet).

Rate of Application for the Liquid Applicator: Use 22 to 29 fluid ounces in 2 1/2 gallons of water and apply to 4,000 square feet of lawn. Water thoroughly after application.

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS

Apply 3 1/8 gallons of this product in 80 to 100 gallons of water uniformly on one acre (9.2 fluid ounces) per 1,000 square feet.

When a weed control program involves two to three applications of this product for crabgrass, goosegrass and bluegrass, the rates of application for goosegrass and annual bluegrass may be reduced to 1 7/8 gallons (15 pints) to 2.5 gallons (20 pints) per acre (5.5 to 7.3 fluid ounces per 1,000 square feet), using the higher rate for heavier infestations.

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 turfgrass to fill in the thin or bare spots formerly occupied by crabgrass.

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The following procedures are suggested in order to minimize any stunting of turfgrasses which may occur when reseeding into areas treated with this product:

1. Do not reseed within 4 months after application
2. Renovate the area to be reseeding 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 application of this product, apply powdered activated charcoal prior to reseeding to deactivate this product. Apply the activated charcoal at a rate of 7 lbs. in 14 gals. of water per 1,000 sq. ft. (300 lbs. in 600 gals. of water per acre). 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.

STORAGE AND DISPOSAL

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

STORAGE: Protect from temperatures below 42°F. Product crystallizes at lower temperatures. Warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use. Do not store near sources of heat or open flame.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or incinerate, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

The Manufacturer warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.

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