

4155 2011 1020

107

JUL 12 1993

Dr. James A. Armbruster
PBI/Gordon Corp.
P.O. Box 14090
1217 West 12th St.
Kansas City, MO 64101

Dear Dr. Armbruster:

Subject: Final Printed Labels
BENTAMEC-4- PRE-EMERGENCE GRASS KILLER
EPA Reg. No. 2217-696
Your submission dated May 20, 1993

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

1. Revise your "disposal of wastes statement" under the Environmental Hazards heading by adding, "Do not apply directly to water to areas where surface water is present or to intertidal areas below the high water mark."

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 158, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Sincerely yours,

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

Enclosure

5092

BENSUMEC™ 4 LF

PRE-EMERGENT GRASS & WEED HERBICIDE

Contains **BETASAN®***

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

INERT INGREDIENTS

46.0%

54.0%

TOTAL 100.0%

This product contains 4 pounds active ingredient per gallon. In EPA Letter Dated:

**KEEP OUT OF REACH OF CHILDREN
CAUTION**
See back panel for additional Precautionary Statements and Statement of Practical Treatment.

845/792

BETASAN® is a registered trademark of ICI Americas, Inc.

JUL 12 1993

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

NET CONTENTS ONE U.S. GALLON (3.785 liters)



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

SEE ACCOMPANYING BOOKLET FOR COMPLETE LABEL

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals
CAUTION: Harmful if swallowed or absorbed through the skin. Avoid breathing spray mist. 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.

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 (pralidoxime chloride) 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 immediately.

Environmental Hazards:
This product is toxic to fish. Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from area treated.

Physical 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.

STORAGE & 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. Store in original container in locked storage area. Keep pesticides separate during storage to prevent cross-contamination with other pesticides or fertilizers.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: For metal containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. For plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

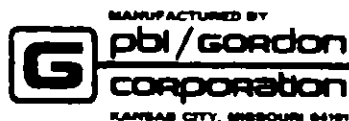
LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

845/792 AP100991
EPA REG. NO. 2217-696
EPA EST. NO. 2217-KS-1



BEST AVAILABLE COPY

BENSUMEC 4 LF

PRE-EMERGENT GRASS & WEED HERBICIDE



345 792 AP100991
EPA REG NO 2217-696
EPA EST NO 2217-KS-1

Contains **BETASAN®**

Selective Herbicide for Pre-emergence
Control of CRABGRASS and ANNUAL BLUEGRASS
in TURF, ORNAMENTALS, and GROUND COVERS.

ACTIVE INGREDIENT:

Benzofenacarb S-(10 O-Desopropyl phosphorodithioate) ester of N-(2-mercaptoethyl) benzene sulfonamide

INERT INGREDIENTS

46.0%
54.0%
TOTAL 100.0%

This product contains 4 pounds active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION

See below for additional Precautionary Statements and Statement of Practical Treatment

BETASAN® is a registered trademark of ICI Americas, Inc.



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

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

CAUTION: Harmful if swallowed or absorbed through the skin. Avoid breathing spray mist. 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 consumption of food, feed, or water supplies.

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 antidote. 2-PAM (protopam chloride) is also antidote 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 immediately.

Environmental Hazards

This product is toxic to fish. Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from area treated.

Physical 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.

STORAGE & DISPOSAL

STORAGE: Protect from temperatures below 42°F. Product crystallizes at lower temperatures. Warm or sun at light temperatures and mix to redissolve crystals and assure uniformity before use. Do not store near source of heat or open flame. Store in original container in locked storage area. Keep pesticides separate during storage to prevent cross-contamination with other pesticides or fertilizers.

PESTICIDE DISPOSAL: Do not spray on water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: For 1-gallon containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. For plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or 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. Mix well before diluting with water. BENSUMEC 4 LF should be used only for recommended uses and at recommended rates. Clean up spills on walks or paths by covering with dry soil or absorbent material. Bury sweepings and hose area. Do not allow children or pets on treated areas until grass is fully green. BENSUMEC 4 LF is recommended for use on mineral soils only. Do not apply post-moss to lawn, ground covers, or established ornamentals before treating with BENSUMEC 4 LF. Do not use in greenhouses. Do not apply this product through any type of irrigation system.

GENERAL INFORMATION

BENSUMEC 4 LF is recommended for use on home lawns, parks and golf courses, on ornamental lawns and on ground covers for control of crabgrass, annual bluegrass and other annual weeds listed.

Application of BENSUMEC 4 LF 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 BENSUMEC 4 LF.

Remove leaves, dead tall grass, and other debris before applying BENSUMEC 4 LF to turf areas. Any weeds present around ornamentals must be removed or worked into the soil before applying BENSUMEC 4 LF.

WEEDS CONTROLLED

Annual Bluegrass	Fontana	Redroot Pigweed
Barnyardgrass (Watergrass)	Goosegrass	Shepherdspurse
Deoanthe (Henbit)	Hardy Crabgrass	Smooth Crabgrass
Fall Panicum	Lambquarters	

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: BENSUMEC 4 LF should be applied only to well established grass lawns. It can be used on the following established turf grasses:

Bermudagrass	Carpetgrass	Poa trivialis
Bentgrass spp	Fescue spp	St. Augustinegrass
Perennial Bluegrass spp	Parrotgrass	Red Top
Bermudagrass spp	Perennial Ryegrass	Zoysa

DICHONDRA LAWNS: BENSUMEC 4 LF can be applied to dichondra lawns at the time of seeding or any time thereafter.

ORNAMENTALS AND GROUND COVERS: BENSUMEC 4 LF should be applied only to the following well established ornamentals and ground covers:

Herbaceous Plants	Ground Covers	Deciduous Trees	
Alyssum	Anga	Shrubs & Evergreens	Bulbs
Asier	Campanula	Abelia	Daffodi
Bachelor's Button	Gazania	Azalea	Dahlia
Calendula	Hypericum	Azara	Freesia
Candy-tuft	Ice Plant	Borwick	Gladiolus
Coral Bell	Impatiens	Daphne	Narcissus
Daisy	Madagascar	Holly	Ranunculus
Marigold	Parthenoc	Juniper	Tulip
Pansy	Periwinkle	Monterey Cypress	
Primrose	Sedum	Monterey Pine	
Stock	Wick	Myrtle	
Sweet Pea	Strawberry	Privet	
Wallflower		Pyracantha	
		Sandersonia	
		Tooria	
		Xylocopa	

For control of crabgrass, apply BENSUMEC 4 LF 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 GENERAL INFORMATION).

For control of annual bluegrass and other annual weeds, apply BENSUMEC 4 LF 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 BENSUMEC 4 LF at the recommended rates should be made 4 to 5 months after the initial application.

BENSUMEC 4 LF should be applied with spray equipment that will provide uniform application such as a knapsack sprayer, hose proportioner, or pressure sprayer.

RATES OF APPLICATION

Apply a maximum of 6 1/2 gallons (50 pints) of BENSUMEC 4 LF 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 1/2 gallons (15 pints) to 2.5 gallons (20 pints) of BENSUMEC 4 LF in 80 to 100 gallons of water uniformly on one acre (5.6 to 7.3 fluid ounces per 1,000 square feet).

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS: Apply 3 1/2 gallons of BENSUMEC 4 LF in 80 to 100 gallons of water uniformly on one acre (9.4 fluid ounces per 1,000 square feet). When a weed program involves two to three applications of BENSUMEC 4 LF for crabgrass, goosegrass and bluegrass, the rate of application for goosegrass and annual bluegrass may be reduced to 1 1/2 gallons (15 pints) to 2.5 gallons (20 pints) per acre (5.6 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 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 BENSUMEC 4 LF-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 BENSUMEC 4 LF application, apply powdered activated charcoal prior to reseeding to deactivate the BENSUMEC 4 LF.
4. Apply the activated charcoal at a rate of 7 pounds in 14 gallons of water per 1,000 square feet (300 pounds in 600 gallons of water per acre).
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.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

