

# AGWAY BETASAN 4-EC

A selective emulsifiable liquid herbicide for use on commercial turf, ornamentals and ground covers.

ACTIVE INGREDIENT		
S-(1,1-Diisopropyl phosphorothioate) ester of N-(2-mercaptoethyl) benzenesulfonamide	46%	
INERT INGREDIENTS	54%	
	TOTAL	100%

Contains 4 pounds Active Ingredient Per Gallon  
U.S. Patent Nos. 3,205,253; 3,298,619

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.

## CAUTION: KEEP OUT OF REACH OF CHILDREN

See additional precautionary statements on side panel.

### PRODUCT INFORMATION

Betasan 4-EC 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.

### WEEDS CONTROLLED

Annual Bluegrass	( <i>Poa annua</i> )
Barnyardgrass	( <i>Watergrass</i> ) ( <i>Echinochloa spp.</i> )
Deadnettle	( <i>Henbit</i> ) ( <i>Lamium spp.</i> )
Fall Panicum	( <i>Panicum dichotomiflorum</i> )
Foxtail	( <i>Setaria spp.</i> )
Goosegrass	( <i>Eleusine indica</i> )
Hairy Crabgrass	( <i>Digitaria sanguinalis</i> )
Lambsquarters	( <i>Chenopodium album</i> )
Redroot Pigweed	( <i>Amaranthus retroflexus</i> )
Shepherd's purse	( <i>Capsella bursa-pastoris</i> )
Smooth Crabgrass	( <i>Digitaria ischaemum</i> )

NOTE: Betasan 4-EC does not control established weeds.

### DIRECTIONS FOR USE

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

READ THESE ENTIRE DIRECTIONS AND DISCLAIMER. USE STRICTLY IN ACCORDANCE WITH LABEL CAUTIONS, WARNINGS AND DIRECTIONS.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, cleaning of equipment or disposal. Open dumping is prohibited. Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

Triple rinse (or equivalent) and offer for recycling, reconditioning or disposal in approved landfill or bury in a safe place. Consult federal, state or local disposal authorities for approved alternate procedures.

Application of Betasan 4-EC 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 Betasan 4-EC.

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

### TIMING OF APPLICATION

#### GENERAL COMMENTS

**GRASS LAWNS:** Betasan 4-EC should be applied only to well established grass lawns. It can be used on the following established turf grasses:

Baha	Pensacola Baha
Bentgrass spp.	Perennial Ryegrass
Perennial Bluegrass spp.	Poa Trivialis
Bermuda grass spp.	Saint Augustine
Centipede	Red Top
Fescue spp.	Zoysia

**DICHONDRA LAWNS:** Betasan 4-EC can be applied to dichondra lawns at the time of seeding or any time thereafter.

**ORNAMENTALS AND GROUND COVERS:** Betasan 4-EC should be applied only to the following well established ornamentals and ground covers:

Alyssum	Coral Bell	Stock
Aster	Daisy	Sweet Pea
Bachelor's Button	Margold	Wall Flower
Calendula	Pansy	Zinnia
Candy tuft	Primrose	
Galliedii	Gladiolus	Ranunculus
Dahia	Narcissus	Tulip
Freesia		
Abelia	Juniper	Pyracantha
Azalea	Monterey Cypress	Sandankwa
Arara	Monterey Pine	Star Jasmine
Boxwood	Myrtle	Tobira
Daphne	Privet	Xylosma
Holly		
Ajuga	Hypericum	Periwinkle
Campanula	Ice Plant	Sedum
Garania	Ivy	Wild Strawberry
	Pathysandra	

### TIMING OF APPLICATION

#### GENERAL COMMENTS

For control of CRABGRASS, apply Betasan 4-EC 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 Directions for Application).

For control of Annual Bluegrass and other annual weeds, apply Betasan 4-EC at the recommended rate (see Rates of Application) before the weeds emerge from the soil.

In southern or western states where germination of crabgrass, annual bluegrass and other annual weeds extends into the late summer and early fall, a second application of Betasan 4-EC at the recommended rates should be made 4 to 5 months after the initial application.

Consult weed specialists of the state agricultural extension service or the state agricultural experiment stations for additional information, as the timing of application will vary with local conditions.

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

Sprinkle with water for 10 to 15 minutes after application to wash the Betasan 4-EC off the grass and down into the soil where the weed seeds are located.

### RATES OF APPLICATION

**CRABGRASS:** Apply 1 1/2 gallons (15 pints) of Betasan 4-EC in 80 to 100 gallons of water uniformly on one acre (5.6 fluid ounces per 1,000 square feet).

**ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS:** Apply 3 1/2 gallons of Betasan 4-EC in 80 to 100 gallons of water uniformly on 1 acre (9.4 fluid ounces per 1,000 square feet).

### RESEEDING

Any material that provides effective control of annual grasses may affect new lawn grass seedings 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. 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.
2. When turf diseases or physiological disorders necessitate reseeding sooner than 4 months after Betasan application, apply powdered activated charcoal prior to reseeding to deactivate the Betasan.

A 8 80

28 NET CONTENTS 5 GALLONS

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Holly		
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Campanula	Ice Plant	Sedum
Gazania	Ivy	Wild Strawberry
	Pachysandra	

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1. Do not reseed within 4 months after application. 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.
2. When turf diseases 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 per 1,000 square feet with 14 gallons of water per 1,000 square feet (300 pounds per acre in 100 gallons 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.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid contact with skin and eyes. In case of contact with eyes, wash with plenty of water for 15 minutes. Call a physician. For skin contact, wash with soap and water. Wash thoroughly after use.

Do not allow children or pets on treated lawns until product has been watered into soil and grass is completely dry.

### ENVIRONMENTAL HAZARDS

**FISH CAUTIONS:** This product is toxic to fish. Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not store near seeds or fertilizer.

### CHEMICAL OR PHYSICAL HAZARDS

Do not use, pour, spill or store near heat or open flame. This product is recommended for use on mineral soils only. Do not apply peat moss to lawn, ground covers or established ornamentals before treating. Keep container closed when not in use.

**DISCLAIMER:** Buyer assumes all risks of use, storage or handling not in strict accordance with directions given herewith.

**NOTE:** This pesticide is to be sold ONLY in this original, unbroken package.

EPA Reg. No. 8590-509

EPA Est. No. 8590 PA 1



Agway Inc., Chemical Division  
Box 4933, Syracuse, NY 13221

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