

PM 25  
476-1897

(Stauffer Shield)

BETASAN® 2.9-E  
Emulsifiable Liquid

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

ACTIVE INGREDIENT:

Bensulide: S-(0,0-Diisopropyl phosphorodithioate) ester of  
N-(2-mercaptoethyl)benzenesulfonamide . . . 34.8%

INERT INGREDIENTS: . . . . . 65.2%  
100.0%

ACCEPTED

Contains 2.9 Pounds Of Active Ingredient Per Gallon.

SEP 3 0 1987

KEEP OUT OF REACH OF CHILDREN

C A U T I O N

STATEMENT OF PRACTICAL TREATMENT

If a known exposure occurs or is suspected, immediately start the procedures given below and simultaneously contact a Poison Center, a physician, or the nearest hospital or call collect, day or night, (203) 226-6602 Stauffer Chemical Company or (800) 424-9300 Pesticide Team Safety Network.

NOTE: Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor. Describe the type of exposure, the victim's symptoms, and follow the advice given.

NOTE TO MEDICAL PERSONNEL: Should cholinesterase inhibition occur, atropine by injection is antidotal. 2-PAM (Protopam Chloride) is also antidotal when administered early and in conjunction with atropine.

IF SWALLOWED, immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

FOR SKIN CONTACT, flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation occurs.

FOR EYE CONTACT, flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

IF INHALLED, remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

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

EPA Reg. No. 476-1897

Gal. Net Liters

EPA Est. 476-N-1 RS-870813

Made in U.S.A. by  
STAUFFER CHEMICAL COMPANY  
WESTPORT, CT. 06881-0850

(LEFT PANEL)

PRECAUTIONARY STATEMENTSHAZARDS TO HUMANS AND DOMESTIC ANIMALSCAUTION:

- Harmful if swallowed or absorbed through the skin.
- Avoid breathing spray mist.
- Avoid contact with skin, eyes, and clothing.
- 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. Keep out of lakes, streams, and ponds. 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 area treated.
- Apply this product only as specified on this label.

PHYSICAL HAZARDS

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

STORAGE AND DISPOSAL

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

STORAGE: Store only in original container in an area that can be locked and is out of reach of children. Protect from temperatures below 32°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: Securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse empty bottle. Rinse thoroughly before discarding in trash.

SPILL OR LEAK: Soak up pooled liquid with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material and wrap in several layers of newspaper and discard in trash. Generously cover contaminated area with a slurry of common household laundry detergent and water. Using a stiff brush, work the slurry into cracks and crevices. Allow to stand for 2-3 minutes then flush with water. Repeat if necessary.

GENERAL USE PRECAUTIONS

- READ ALL DIRECTIONS BEFORE USING.
- MIX WELL BEFORE DILUTING WITH WATER.

**BEST AVAILABLE COPY**

- . BETASAN 2.9-E should be used only for recommended uses and at recommended rates.
- . Do not allow children or pets on treated lawns until BETASAN 2.9-E has been watered into the soil and grass is completely dry.
- . BETASAN 2.9-E is recommended for use on mineral soils only.
- . Do not apply peat moss to lawn, ground covers or established ornamentals before treating with BETASAN 2.9-E.

PRODUCT INFORMATION

BETASAN 2.9-E 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.

Application of BETASAN 2.9-E 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 BETASAN 2.9-E. Remove leaves, dead or tall grass and other debris, or thoroughly work them into the soil before applying BETASAN 2.9-E.

WEEDS CONTROLLED

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

DIRECTIONS FOR USE

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

TIMING OF APPLICATION

GRASS LAWNS: BETASAN 2.9-E should be applied to well established grass lawns. BETASAN 2.9-E can be used on the following established turf grasses:

Bahia	Centipede	Poa trivialis
Bermudagrass	Pensacola Bahia	Red Top
Perennial Bluegrass spp.	Perennial Ryegrass	Zoysia

**BEST AVAILABLE COPY**

DICHONDRA LAWNS: BETASAN 2.9-E can be applied to dichondra lawns at the time of seeding or any time thereafter.

ORNAMENTALS AND GROUND COVERS: BETASAN 2.9-E 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 2.9-E at the recommended rate (see RATES OF APPLICATION) anytime 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 2.9-E at the recommended rate (see RATES OF APPLICATION) before the weeds emerge from the soil.

Consult weed specialists of the State Agricultural Experiment Station or the State Agricultural Extension Service for additional information as the timing of applications needed will vary with local conditions. BETASAN 2.9-E should be applied with spray equipment that will provide uniform application such as a hose end sprayer or 1 to 3 gallon pump sprayer.

#### RATES OF APPLICATION

CRABGRASS ONLY: Apply 7-2/3 to 10 fluid ounces of BETASAN 2.9-E in 1 to 3 gallons of water uniformly on 1,000 square feet.

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS: Apply 12-3/4 fluid ounces of BETASAN 2.9-E in 1 to 3 gallons of water uniformly on 1,000 square feet.

~~Sprinkle with water for 10 to 15 minutes after application to~~  
wash the BETASAN 2.9-E off the grass and down into the soil where the weed seeds are located.

**BEST AVAILABLE COPY**

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RATES OF APPLICATION

HOW TO USE:

1. Attach siphonage tube to hose-end sprayer attachment.
2. Screw hose into hose-end sprayer attachment.
3. Remove cap from bottle and insert sprayer attachment.
4. Securely tighten sprayer attachment on bottle.
5. Turn water on. TO START FLOW OF HERBICIDE, place finger over hole on right side of sprayer attachment. Hold about 3 feet above area to be treated moving at a steady pace to ensure consistent coverage.
6. TO STOP FLOW OF HERBICIDE, remove finger from hole to break siphon action. NOTE: To ensure adequate coverage, use moderate to high water pressure when applying through hose-end sprayer attachment.

CRABGRASS ONLY: Apply 1 pint to uniformly cover from 1,600 square feet to 2,087 square feet.

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS: Apply 1 pint to uniformly cover 1,255 square feet.

Where germination of crabgrass, annual bluegrass and other annual weeds extends into the late summer and early fall, a second application of BETASAN 2.9-E at the recommended rates should be made four to five months after the initial application.

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#### 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 re-seeding into BETASAN-treated areas.

1. Do not re-seed within four months after application.
2. Renovate the area to be re-seeded by raking thoroughly and mix sterilized (weed-free) organic mulch (50-50 by volume) into the top two inches of soil.
3. When turf diseases or physiological disorders necessitate reseeding sooner than 4 months after BETASAN 2.9-E application, apply powdered activated charcoal prior to reseeding to deactivate the BETASAN 2.9-E.

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).

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:** Stauffer Chemical Company makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material, except those which are contained on Stauffer's label.

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PM 2.5  
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Selective Herbicide for Pre-Emergence Control of Crabgrass  
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ACTIVE INGREDIENT:

Bensulide: S-(0,0-Diisopropyl phosphorodithioate) ester of  
N-(2-mercaptoethyl)benzenesulfonamide . . . 34.8%

INERT INGREDIENTS: . . . . . 65.2%  
100.0%

ACCEPTED

Contains 2.9 Pounds Of Active Ingredient Per Gallon.

SEP 3 0 1987

KEEP OUT OF REACH OF CHILDREN

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 476-1897

C A U T I O N

STATEMENT OF PRACTICAL TREATMENT

If a known exposure occurs or is suspected, immediately start the procedures given below and simultaneously contact a Poison Center, a physician, or the nearest hospital or call collect, day or night, (203) 226-6602 Stauffer Chemical Company or (800) 424-9300 Pesticide Team Safety Network.

NOTE: Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor. Describe the type of exposure, the victim's symptoms, and follow the advice given.

NOTE TO MEDICAL PERSONNEL: Should cholinesterase inhibition occur, atropine by injection is antidotal. 2-PAM (Protopam Chloride) is also antidotal when administered early and in conjunction with atropine.

IF SWALLOWED, immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

FOR SKIN CONTACT, flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation occurs.

FOR EYE CONTACT, flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

IF INHALLED, remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

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EPA Reg. No. 476-1897  
EPA Est. 476-NJ-1

Gal. Net \_\_\_\_\_ Litres \_\_\_\_\_  
RS-870813

Made in U.S.A. by  
STAUFFER CHEMICAL COMPANY  
WESTPORT, CT. 06881-0850

**BEST AVAILABLE COPY**

## (LEFT PANEL)

PRECAUTIONARY STATEMENTSHAZARDS TO HUMANS AND DOMESTIC ANIMALSCAUTION:

- Harmful if swallowed or absorbed through the skin.
- Avoid breathing spray mist.
- Avoid contact with skin, eyes, and clothing.
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ENVIRONMENTAL HAZARDS

- This product is toxic to fish. Keep out of lakes, streams, and ponds. 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 area treated.
- Apply this product only as specified on this label.

PHYSICAL HAZARDS

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

STORAGE AND DISPOSAL

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

STORAGE: Store only in original container in an area that can be locked and is out of reach of children. Protect from temperatures below 32°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: Securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse empty bottle. Rinse thoroughly before discarding in trash.

SPILL OR LEAK: Soak up pooled liquid with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material and wrap in several layers of newspaper and discard in trash. Generously cover contaminated area with a slurry of common household laundry detergent and water. Using a stiff brush, work the slurry into cracks and crevices. Allow to stand for 2-3 minutes then flush with water. Repeat if necessary.

GENERAL USE PRECAUTIONS

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- MIX WELL BEFORE DILUTING WITH WATER.

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PRODUCT INFORMATION

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WEEDS CONTROLLED

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- Lambsquarters (Chenopodium album)
- Redroot Pigweed (Amaranthus retroflexus)
- Shepherdspurse (Capsella bursa-pastoris)
- Smooth Crabgrass (Digitaria ischaemum)

**BEST AVAILABLE COPY**

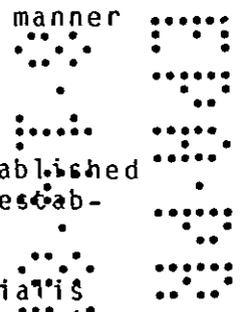
DIRECTIONS FOR USE

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TIMING OF APPLICATION

GRASS LAWNS: BETASAN 2.9-E should be applied to well established grass lawns. BETASAN 2.9-E can be used on the following established turf grasses:

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



DICHONDRA LAWNS: BETASAN 2.9-E can be applied to dichondra lawns at the time of seeding or any time thereafter.

ORNAMENTALS AND GROUND COVERS: BETASAN 2.9-E 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 2.9-E at the recommended rate (see RATES OF APPLICATION) anytime 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 2.9-E at the recommended rate (see RATES OF APPLICATION) before the weeds emerge from the soil.

Consult weed specialists of the State Agricultural Experiment Station or the State Agricultural Extension Service for additional information as the timing of applications needed will vary with local conditions. BETASAN 2.9-E should be applied with spray equipment that will provide uniform application such as a hose end sprayer or 1 to 3 gallon pump sprayer.

RATES OF APPLICATION

CRABGRASS ONLY: Apply 7-2/3 to 10 fluid ounces of BETASAN 2.9-E in 1 to 3 gallons of water uniformly on 1,000 square feet.

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS: Apply 12-3/4 fluid ounces of BETASAN 2.9-E in 1 to 3 gallons of water uniformly on 1,000 square feet.

Sprinkle with water for 10 to 15 minutes after application to wash the BETASAN 2.9-E off the grass and down into the soil where the weed seeds are located.

**BEST AVAILABLE COPY**

Where germination of crabgrass, annual bluegrass and other annual weeds extends into the late summer and early fall, a second application of BETASAN 2.9-E at recommended rates should be made four to five months after the initial application.

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 re-seeding into BETASAN-treated areas.

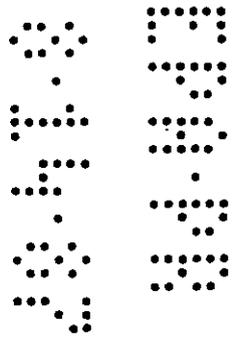
1. Do not re-seed within four months after application.
2. Renovate the area to be re-seeded by raking thoroughly and mix sterilized (weed-free) organic mulch (50-50 by volume) into the top two inches of soil.
3. When turf diseases or physiological disorders necessitate reseeding sooner than 4 months after BETASAN 2.9-E application, apply powdered activated charcoal prior to reseeding to deactivate the BETASAN 2.9-E.

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).

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.

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RATES OF APPLICATION

HOW TO USE:

1. Attach siphonage tube to hose-end sprayer attachment.
2. Screw hose into hose-end sprayer attachment.
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