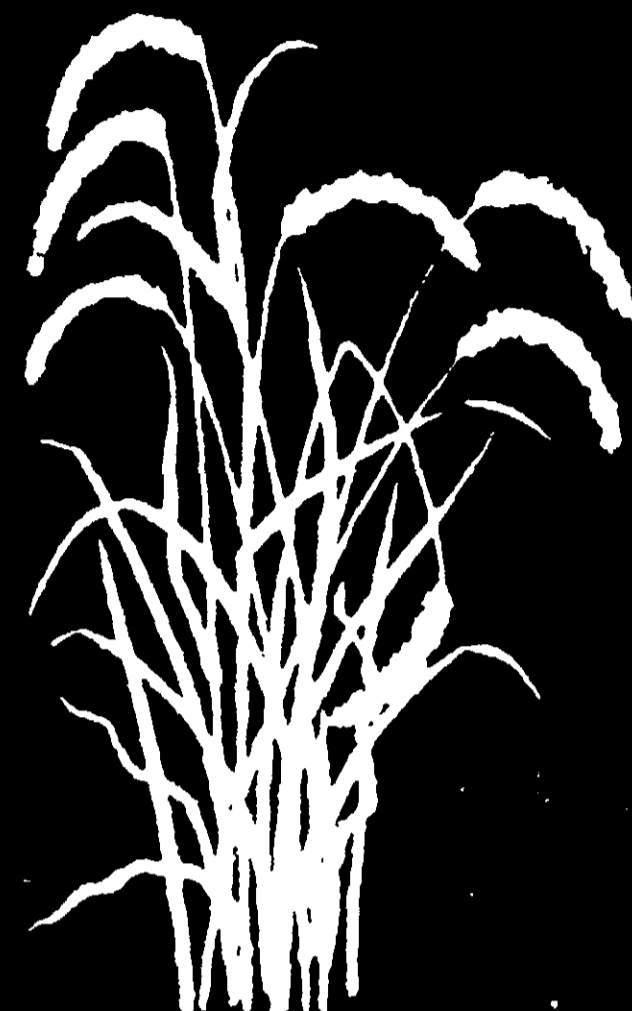




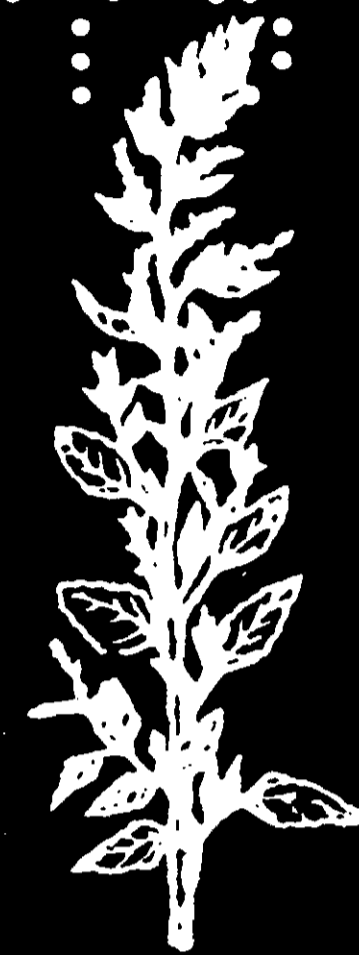
GREEN or  
YELLOW FOXTAIL



GIANT FOXTAIL



PIGWEED



LAMBSQUARTERS

**Net Weight 50 Pounds**

# AMIBEN

**GRANULAR  
PREEMERGENCE HERBICIDE**

**Controls Annual Broadleaf Weeds and Annual Grasses**

Controls Annual Broadleaf Weeds and Annual Grasses

in

# SOYBEANS, and OTHER CROPS

CAUTION Keep out of reach of children. See other Caution on back panel.

**ACTIVE INGREDIENTS**

Ammonium salts of chloramben (3-amino-2,5-dichlorobenzoic acid) \* 97%

Ammonium salts of related aminodichlorobenzoic acids\* 1%

**INERT INGREDIENTS**

89.2%

\*Total aminodichlorobenzoic acids 100% by weight

Chloramben equivalent 9.0% by weight

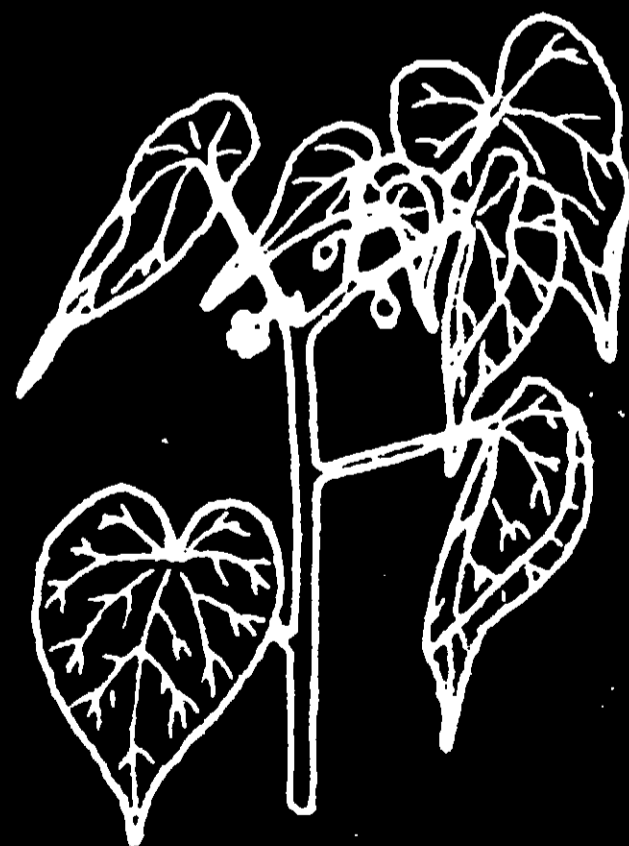
Related aminodichlorobenzoic acid equivalent 1.0% by weight

**AMCHEM PRODUCTS, Inc.**

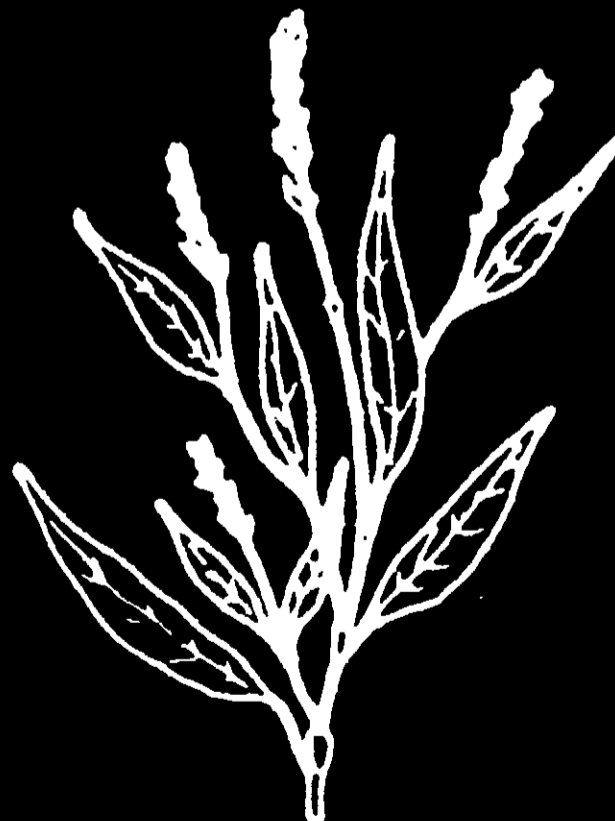
First Name in Herbicide Research

AMBLER, PA • Clinton, Iowa • St. Joseph, Mo • Fremont, Calif

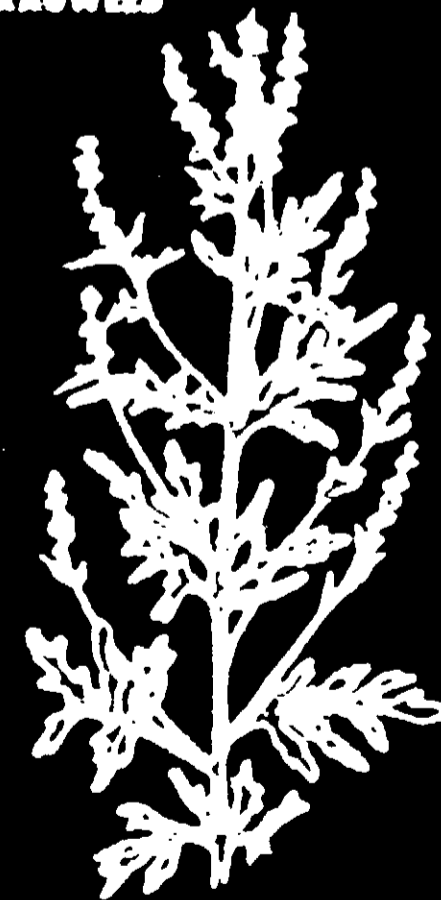
VELVET LEAF



SMARTWEED



RAGWEED



Controls Annual Broadleaf Weeds and Annual Grasses  
in  
**SOYBEANS, and OTHER CROPS**

**CAUTION** Keep out of reach of children. See other Cautions on back panel.

**ACTIVE INGREDIENTS:**

Ammonium salts of chlormben (3-amino-2, 5-dichlorobenzoic acid)*	9.7%
Ammonium salts of related aminodichlorobenzoic acids*	1.1%
<b>INERT INGREDIENTS</b>	<b>89.2%</b>

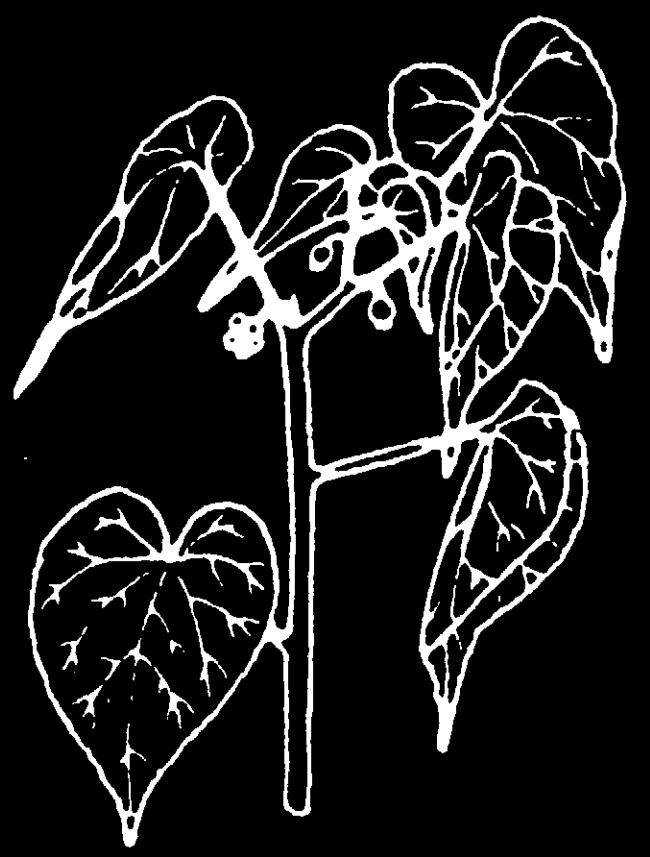
\*Total aminodichlorobenzoic acids 10.0% by weight.  
Chlormben equivalent 9.0% by weight.  
Related aminodichlorobenzoic acid equivalent 1.0% by weight.

**AMCHEM PRODUCTS, Inc.**

First Name in Herbicide Research

AMBLER, PA. • Clinton, Iowa • St. Joseph, Mo. • Fremont, Calif.

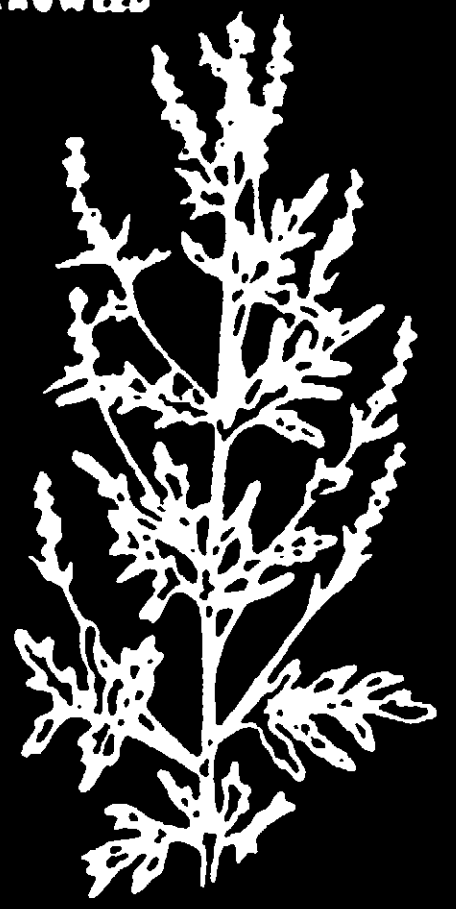
VELVET LEAF



SMARTWEED



RAGWEED



# GENERAL INFORMATION

AMIBEN Granular has many desirable features: Outstanding control of annual broadleaf weeds and annual grasses. Excellent crop tolerance. No interference in soil, no change in normal topsoil conditions. One of the most consistent preemergence weed killers available. Tested and recommended by state colleges and extension agents. Proven effective on millions of acres of soybeans.

## HOW AMIBEN™ GRANULAR PREEMERGENCE HERBICIDE WORKS

AMIBEN Granular is most effective applied at planting time when spreading and planting are done in the same operation. Subsequent moisture moves the chemical into the soil where germinating weed seeds take it up and are controlled.

AMIBEN Granular remains active and effective for several weeks long enough generally for crops to fill middles and shade out late season weed growth.

AMIBEN Granular controls the following important Annual Grass and Broadleaf Weeds:

bermudgrass (water grass)  
carpetweed  
chickweed, annual  
coffee-weed (sesbania)  
crabgrass, hairy (large)  
crabgrass, smooth  
fall panicgrass  
foxtail, giant  
foxtail, green  
foxtail, yellow  
goosegrass (silver crabgrass)  
johnsongrass-seedling

Echinochloa crusgalli  
Mollugo verticillata  
Stellaria media  
Sesbania exaltata  
Digitaria sanguinalis  
Digitaria ischaemum  
Panicum dichotomiflorum  
Setaria faberii  
Setaria viridis  
Setaria glauca  
Eleusine indica  
Sorghum halepense

kochia  
lambequarter, common  
mustard, wild  
nightshade, black  
pigweeds  
prickly sida (tee-weed)  
purslane (pursley)  
ragweed, common  
Russian thistle  
smartweed, Pennsylvania  
stinkgrass  
velvetleaf (buttonweed)

Koeleria scoparia  
Chenopodium album  
Raspica kaber  
Solanum nigrum  
Amaranthus sp.  
Sida spinosa  
Portulaca oleracea  
Ambrosia artemisiifolia  
Salsola kali  
Polygonum pennsylvanicum  
Eragrostis ciliaris  
Abutilon theophrasti

Velvetleaf, prison weed, buffalober wild oats and cocklebur often germinate in soil at depths below the chemical penetration. Even though populations of these weeds are reduced under normal rainfall conditions, weed seeds which germinate outside the chemical zone are not affected.

Where cocklebur is a major problem in soybeans, use BUTYRAC®200 postemergence.

Sprouts coming from roots of established perennial weeds such as horsetail, hedge bindweed, nutsedge (nutgrass), milkweed, dogwood, quackgrass and johnsongrass are not controlled.

## DIRECTIONS

**SOYBEANS, DRY BEANS** (including white, navy, kidney, pinto, lima) — **PEANUTS** (Oklahoma, North Texas) — **SUNFLOWERS**

Plant and treat in the same operation. Apply at the rate of 20 to 30 pounds AMIBEN Granular (2 to 3 pounds acid equivalent) per broadcast acre. The higher rate should be used on clay loams, clay or high organic (3 to 8% mineral) soils.

When band applying, mount the spreader on the back of row wheel so that planting and spreading are done in the same operation. Proper calibration and maintenance of desired spreader height above the ground are very important. Weeds growing in the middles between the treated rows should be cultivated as soon as necessary. Use care while cultivating to avoid throwing fresh soil on treated bands.

If sufficient rain does not fall within 3 to 4 days after spraying AMIBEN Granular but there is enough soil moisture to germinate weeds and grasses, a light cultivation with a rotary hoe or similar tool will uproot these small broadleaf weeds and grasses. The shallow mixing of AMIBEN Granular in the surface soil will not interfere with the action of AMIBEN Granular when rain comes.

If heavy rain packs the soil surface, rotary hoe the field to aid bean emergence. Do not disrupt the chemical band with deep cultivation.

In dry beans grown in low rainfall areas, incorporate AMIBEN Granular into the top 1 to 2 inches of soil with a disk or harrow. Plant beans immediately after incorporation.

**AMIBEN Granular split application to soybeans:** Apply 15 pounds of AMIBEN Granular per acre as a broadcast treatment just prior to planting. Incorporate AMIBEN Granular by shallow cultivation. The same day, if possible, plant beans and apply AMIBEN Granular in a band over the row at a rate equivalent to 10 to 15 pounds AMIBEN Granular per broadcast acre.

**PROGRAMMED WEED CONTROL FOR SOYBEANS-AMIBEN Granular applied over preplant TREFLAN.**

AMIBEN Granular may be applied in a band over the soybean row at planting time in fields where TREFLAN has been applied as a preplant soil incorporated herbicide.

Apply AMIBEN on a band at a rate equivalent to 20 pounds (20 pounds chloramben) per broadcast acre.

See TREFLAN label for exact directions for rate of application, method of incorporation and timing for your area. Observe all directions and cautions on the AMIBEN and TREFLAN labels.

**CORN** — Use only on heavy soils in Missouri, Minnesota, Iowa, Ohio, Illinois, Kansas, Nebraska and Indiana. If rains and extended cold weather occur after planting, corn injury may result.

Apply 20 pounds (2 pounds acid equivalent) of AMIBEN Granular per acre. For best results, plant and treat at the same time.

Plant corn at least 2 to 2½ inches deep. Do not use AMIBEN Granular on very heavy or light textured sandy soils.

**SWEET POTATOES** — Apply AMIBEN Granular at the rate of 40 pounds (4 pounds acid equivalent) per broadcast acre at planting time. For the first few cultivations after treatment, set sweeps so that soil in treated bands is not disturbed. For the final cultivation, set sweeps closer to pull soil as high as possible over the sweet potato row.

**ESTABLISHED TOMATOES AND PEPPERS (from transplants of seed)**

Use 20 to 40 pounds of AMIBEN Granular per acre as an overall treatment. Apply AMIBEN Granular once during the season using the rate and timing recommended in your area. Apply when tomato and pepper foliage is dry.

Times to Apply (use only one)

A. Soon after transplanting

On medium to heavy soils, apply AMIBEN Granular after plants are established. Delayed timing following transplanting will not reduce AMIBEN Granular at this time for tomatoes and peppers growing on light sandy soils as injury may result.

B. Four weeks after transplanting

OR

C. At Lay-By (seeded or transplanted)

On light textured sandy soils or on medium to heavy soils, cultivate in rows to control weeds after transplanting. Apply AMIBEN Granular immediately after the last cultivation and before weeds emerge. Weeds in the crop row should be removed prior to application.

**SEEDED SQUASH AND PUMPKIN—Band Treatments**

Treat at planting time or as soon after planting as possible. Broadcast weeds and crop emergence. Mount the band spreader on the planter so that seeding and banding are carried out in the same operation.

After squash and pumpkin emerge, use normal cultivation to control weeds growing in the untreated strips between the rows.

Pounds AMIBEN Granular Per Banded Acre

Row Width	Band Width	20 lb/A Light Soils	30 lb/A Heavy or High Organic Soils
10 in.	14 width	5.9 lbs.	7.4 lbs.
15 in.	14 width	5.6 lbs.	7.4 lbs.
20 in.	14 width	5.3 lbs.	7.4 lbs.

**LIMA BEANS Overall Treatment**

Apply 20 to 40 pounds of AMIBEN Granular (2 to 3 pounds acid equivalent) at planting time. Apply soon after planting as possible. Control weeds and lima beans emerge.

**SEEDLING ASPARAGUS—Overall Treatment**

Apply 20 pounds of AMIBEN Granular per acre (2 pounds acid equivalent) as soon as possible after asparagus is planted and before weeds emerge. Broadcast with 1 inch of water following application. Success best to provide maximum weed control.

Cameraman's Note  
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when tomato and pepper foliage is dry

**A. Soon after transplanting**

On medium to heavy soils, apply AMIBEN Granular after plants are established, recovered from wilting that follows transplanting. Do not use AMIBEN Granular at this time for tomato and peppers growing on light sandy soils as injury may result.

**B. Four weeks after transplanting**

OR

**C. At Lay-By (seeded or transplanted)**

On light textured sandy soils, or on medium to heavy soils, cultivate or hoe to control weeds after transplanting. Apply AMIBEN Granular immediately after the last cultivation and before weeds emerge. Weeds in the crop row should be removed prior to application.

**SEEDED SQUASH AND PUMPKIN-Band Treatments**

Treat at planting time or as soon after planting as possible, before weeds and crop emerge. Mount the band spreader or the plunger so that seeding and banding are carried out in the same operation.

After squash and pumpkin emerge, use normal cultivation to control weeds growing in untreated strips between the rows.

Pounds AMIBEN Granular Per Banded Acre

Row Width	Band Width	@ 3 lb/A Light Soils	@ 4 lb/A Heavy or High Organic Soils
12 inch	14 width	5.9 lbs	7.8 lbs
14 inch	14 width	5.6 lbs	7.4 lbs
16 inch	14 width	5.3 lbs	7.0 lbs

**LIMA BEANS Overall Treatment**

Apply 20 to 40 pounds of AMIBEN Granular or 4 pounds acid equivalent. Treat at planting time, as soon after planting as possible, before weeds and lima beans emerge.

**SEEDLING ASPARAGUS-Overall Treatment**

Apply 40 pounds of AMIBEN Granular per acre, or 8 pounds acid equivalent, as soon as possible after asparagus is planted and before seeds emerge. Irrigate with 1/2 inch of water following application. It is suggested to produce maximum weed control.

**BAND TREATMENTS**

Pounds AMIBEN Granular FREEMERGENCE HERBICIDE Per Banded Acre

Row Width	Band Width	@ 2 lb/A	@ 2 1/2 lb/A	@ 3 lb/A	@ 4 lb/A
24 inch	10 inch	5 lbs. 8 ozs.	11 lbs. 14 ozs.	14 lbs. 5 ozs.	19 lbs.
28 inch	12 inch	8 lbs. 9 ozs.	10 lbs. 11 ozs.	12 lbs. 13 ozs.	17 lbs. 2 ozs.
	14 inch	10 lbs.	12 lbs. 3 ozs.	15 lbs.	20 lbs.
30 inch	12 inch	8 lbs.	10 lbs.	12 lbs.	16 lbs.
	14 inch	9 lbs. 5 ozs.	11 lbs. 10 ozs.	14 lbs.	18 lbs. 10 ozs.
36 inch	12 inch	6 lbs. 10 ozs.	8 lbs. 5 ozs.	10 lbs.	13 lbs.
	14 inch	7 lbs. 13 ozs.	9 lbs. 4 ozs.	11 lbs. 10 ozs.	15 lbs.
38 inch	12 inch	6 lbs. 6 ozs.	7 lbs. 15 ozs.	9 lbs. 8 ozs.	12 lb.
	14 inch	7 lbs. 5 ozs.	9 lbs. 2 ozs.	11 lbs.	14 lbs.
40 inch	12 inch	6 lbs. 10 ozs.	7 lbs. 9 ozs.	9 lbs. 8 ozs.	12 lbs. 7 ozs.
	14 inch	7 lbs.	8 lbs. 12 ozs.	10 lbs. 8 ozs.	14 lbs.

NOTE: Double the 2 1/2 lb/A amounts for application at the 4 lb/A rate on sweet potatoes.

**SUGGESTED GAUGE SETTINGS**

APPLICATOR	SPEED IN MILES PER HOUR									
	2	3	4	5	6	7	8	9	10	
3 lb AMIBEN 10% granules per acre, 14 in bands on 40 in rows										
AC	3 for all speeds									
Gandy	1-13	12	14.6	16.6	18.3	19.8	21.2	22.4	23.5	
*H	1-4.4	1-6.4	1-9.8	2-3.8	2-8.5	3-2.8	3-6.6	4-0.9	4-4.8	
*John Deere	1-22	1-5	2-7	2-11	2-12	2-14	2-16	2-20	2-33	
Noble	8	12	16	19	21	24	26	29	31	
4 lb AMIBEN 10% granules per acre, 14 in bands on 40 in rows										
AC	4 for all speeds									
Gandy	11.6	14.2	16.6	18.7	20.4	22.0	23.5	24.7	26.2	
*H	1-5.4	1-8.8	1-10.8	3-0.9	3-4.6	3-9.8	4-4.8	4-9.1	5-2.6	
*John Deere	1-23	1-29	2-11	2-12	2-15	2-19	2-23	2-28	3-1	
Noble	9	11	13	15	17	19	21	23	25	
5 lb AMIBEN 10% granules per acre, 14 in bands on 40 in rows										
AC	5 for all speeds									
Gandy	12.7	15.8	18.3	20.4	22.4	24.0	25.7	27.2	28.6	
*H	1-6.4	2-1.6	2-8.5	3-4.6	4-0.9	4-6.4	5-1.3	5-5.6	6-0.0	
*John Deere	1-25	2-9	3-12	3-15	3-18	3-25	3-31	3-7	3-6	
Noble	11	13	15	17	19	21	23	25	27	

\*1-13 means that with a stem extending out through the center, and gate numbers on the face of the dial, 1-4 means that the gate number is 1, the face of the dial is between 1 and 2 on that stem, and the dial is set at 4.4.

\*\*John Deere has three ranges, 1/22 means Range 1, gauge 22.

**CALIBRATION INSTRUCTIONS**

The above suggested gauge settings are for application with two hopper openings per row for AC and Gandy, and one hopper opening per row with John Deere and Noble. Be sure to check your actual application rate under your operating conditions. Fill hoppers level full and plant a known acreage such as 0.8 acre-the row 1 with a four row planter on 20 inch 56 mile rows spaced 40 inches apart. Weigh a full bag, re-fill hoppers, weigh again, subtract to see how much was applied. Divide amount applied by acreage covered to get actual rate. If AMIBEN 10% rate is 10.5 lb/A, and you apply 4 pounds, and your actual rate is 1.65 pounds per acre, because 4 x 10.5 = 42, 42 divided by 25.5 (1.65 x 25.5) = 25.5, adjust up or down accordingly. NOTE: For NARROW ROWS, use these gauge settings to apply at these rates within the band, although it will take more bags per field.

**CAUTION**

Harmful if swallowed. Avoid contact with skin, eyes or clothing.  
Do not feed to livestock. Do not use on plants or animals.  
Do not use on plants or animals.  
Do not use on plants or animals.

**WARRANTY**

Amchem warrants that composition of this product conforms to the chemical formula given in the ingredient statement and the analysis listed for the purpose of this product when used according to directions. Because of the broad range of conditions which may be encountered with the use of this product, it is impossible to eliminate all risks, even if all the directions are followed. Amchem therefore makes no other express or implied warranty, and no agent of

*Cameraman's Note*  
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**SEEDLING ASPARAGUS-Overall Treatment**

Apply 40 pounds of AMIBEN Granular per acre (pounds acid equivalent) as soon as possible after asparagus is planted and before weeds emerge. Irrigate with 1/2 inch of water following application suggested to produce maximum weed control.

**BAND TREATMENTS**

Pounds AMIBEN Granular FREEMERGENCY HERBICIDE Per Banded Acre

Row Width	Band Width	@ 2 lb/A	@ 2 1/2 lb/A	@ 3 lb/A	@ 4 lb/A
24 inch	12 inch	5 lbs 6 ozs	11 lbs 14 ozs	14 lbs 5 ozs	19 lbs
28 inch	12 inch	8 lbs 9 ozs	10 lbs 11 ozs	12 lbs 11 ozs	17 lbs 2 ozs
	14 inch	11 lbs	12 lbs 9 ozs	15 lbs	20 lbs
36 inch	12 inch	8 lbs	10 lbs	12 lbs	16 lbs
	14 inch	11 lbs 5 ozs	12 lbs 10 ozs	14 lbs	18 lbs 5 ozs
48 inch	12 inch	6 lbs 12 ozs	8 lbs 12 ozs	10 lbs	12 lbs 4 ozs
	14 inch	8 lbs 12 ozs	9 lbs 12 ozs	11 lbs 12 ozs	15 lbs 10 ozs
72 inch	12 inch	4 lbs 9 ozs	5 lbs 12 ozs	7 lbs 8 ozs	12 lbs 12 ozs
	14 inch	6 lbs 12 ozs	7 lbs 12 ozs	9 lbs	14 lbs 10 ozs
108 inch	12 inch	3 lbs 9 ozs	4 lbs 9 ozs	6 lbs	12 lbs 7 ozs
	14 inch	5 lbs 12 ozs	6 lbs 12 ozs	8 lbs 5 ozs	14 lbs

Do not exceed 40 pounds of AMIBEN per acre. The 4 lb/A rate is for 14 inch bands.

**SUGGESTED GAUGE SETTINGS**

APPLICATOR	SPEED IN MILLS PER HOUR									
	2	3	4	5	6	7	8	9	10	
14 lb AMIBEN 10% granules per acre, 14 inch bands on 40 inch rows										
AC	4 for all speeds									
Gandy	1.5	1.7	1.8	1.6	1.8	1.9	2.1	2.2	2.4	2.5
John Deere	1.14	1.64	1.38	2.38	2.85	3.28	3.66	4.09	4.48	4.8
Noble	1.22	1.15	1.1	2.11	2.12	2.14	2.16	2.20	2.24	2.28
John Deere	1.1	1.2	1.6	1.9	2.1	2.4	2.6	2.9	3.1	3.1
17 1/2 lb AMIBEN 10% granules per acre, 14 inch bands on 40 inch rows										
AC	4 for all speeds									
Gandy	1.6	1.7	1.8	1.8	2.0	2.0	2.3	2.4	2.7	2.8
John Deere	1.54	1.88	1.78	3.09	3.46	3.95	4.38	4.91	5.26	5.26
Noble	1.73	1.29	1.11	2.12	2.15	2.19	2.23	2.28	2.31	2.31
John Deere	1.1	1.4	1.8	2.2	2.5	2.8	3.1	3.4	3.7	3.8
17 1/2 lb AMIBEN 10% granules per acre, 14 inch bands on 40 inch rows										
AC	5 for all speeds									
Gandy	1.7	1.8	1.8	2.0	2.2	2.4	2.7	2.9	3.2	3.3
John Deere	1.64	2.16	2.85	3.46	4.09	4.64	5.13	5.56	6.00	6.00
Noble	1.25	1.4	1.12	2.15	2.18	2.25	2.33	2.4	2.5	2.5
John Deere	1.1	1.7	2.1	2.5	2.9	3.2	3.6	3.9	4.3	4.3

The 14 lb and 17 1/2 lb rates are for 14 inch bands. The 17 1/2 lb rate is for 14 inch bands on 40 inch rows. The 14 lb rate is for 14 inch bands on 40 inch rows. The 17 1/2 lb rate is for 14 inch bands on 40 inch rows.

John Deere has three finger 1/22" bands with gauge 22.

**CALIBRATION INSTRUCTIONS**

Calibration instructions for the applicator. The applicator should be calibrated before use. The applicator should be calibrated before use. The applicator should be calibrated before use.

**CAUTION**

Avoid contact with skin, eyes or clothing. Do not breathe dust or fumes. Do not get on face, hands or clothing. Do not eat, drink or smoke while using this product. Do not use near water.

**WARRANTY**

Amiben warrants that composition of this product meets the chemical analysis stated in the label and that it is free from adulteration. Amiben warrants that it is free from adulteration. Amiben warrants that it is free from adulteration.

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Form No. 25 (6-14-72)

