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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
30/531300/17B

MAR 3 1997

James A. Armbruster, PhD  
PBI/Gordon Corporation  
1217 West 12th Street  
P.O. Box 014090  
Kansas City, MO 64101-0090

Dear Dr. Armbruster:

Subject: Amendment - Revised Use Directions  
Systemic Insecticide Contains Di-Syston  
EPA Registration Number 33955-489  
Your Application Dated August 28, 1996

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes indicated below prior to release for shipment of product bearing the amended labeling.

1. The Worker Protection Standard exclusionary statement should appear on the front label panel.

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager 13  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure

CONCURRENCES							
SYMBOL							
SURNAME	GA						
DATE							

Master Name: **SYSTEMIC INSECTICIDE CONTAINS DI-SYSTON®**

Brand Name: **ACME® ROSE, FLOWER, SHRUB FOOD WITH SYSTEMIC INSECTICIDE 8-8-8 PLANT FOOD**

For Insect Control On Flowers, Roses, Bedding Plants, Potted Plants, Or Ornamental Shrubs In Home Greenhouses And Ornamental Gardens.

**ACTIVE INGREDIENT:**

Disulfoton: O,O-diethyl S-[2-(ethylthio)ethyl]phosphorodithioate\* ..... 1%

**INERT INGREDIENTS** ..... 99%

**TOTAL** 100%

DI-SYSTON® is a registered trademark of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**Statement of Practical Treatment**

**IF SWALLOWED: CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.** Vomiting is to be induced immediately. Administer milk or water freely and induce vomiting by giving one dose (½ ounce) syrup of Ipecac. If vomiting does not occur within 10 to 20 minutes, administer a second dose. If syrup of Ipecac is not available, induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF IN EYES:** ~~Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician at once.~~  
Flush eyes with plenty of water. Call a physician if irritation persists.

**IF INHALED:** ~~Remove victim to fresh air and apply respiration if indicated. Remove victim to fresh air.~~  
Apply artificial respiration if indicated.

**IF ON SKIN:** ~~Wash promptly with soap and water. Rinse thoroughly.~~ Wash with plenty of soap and water. Get medical attention.

**NOTE TO PHYSICIAN:** ~~ANTIDOTE - Atropine sulfate, 2-PAM is also antidotal and may be administered in conjunction with atropine. O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate is a cholinesterase inhibitor. Atropine sulfate is antidotal only if signs of cholinesterase inhibition are present. 2-PAM is also antidotal and may be administered in conjunction with atropine.~~

See side panels for additional Precautionary Statements.

**NET WEIGHT FIVE POUNDS**

558/ APXXXXXX

EPA REG. NO. 33955-489

EPA EST. NO. 2217-KS-2

Manufactured by: Acme Division  
PBI/GORDON CORPORATION  
KANSAS CITY, MISSOURI 64101

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

MAR -3 1997

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

33955-489

96 SEP -5 AM 1:13

RECD EPA/OPP/DPD1

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

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals:**

**WARNING:** Poisoning may occur as a result of exposure. May be fatal if swallowed. May be absorbed through skin. Do not breathe dust. Do not get into eyes, on skin, or clothing. Do not contaminate food or feedstuffs. Wash thoroughly after handling and before eating or smoking. Food utensils such as spoons or measuring cups are not to be used for food purposes after use with any pesticide. Keep children and pets off treated areas until the material is worked into the soil and the treated area has dried completely.

**Environmental Hazards:** This pesticide is toxic to fish and wildlife. ~~For terrestrial uses, do not~~ Do not apply directly to water. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evenings and early morning.

**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 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 being grown in interior landscapes, ornamental gardens and grounds.

**STORAGE & DISPOSAL**

**STORAGE:** Do not store near food or feedstuffs. Do not store near fertilizers, seeds, insecticides or fungicides. Store in original container and place in locked storage area when not using.

**PESTICIDE DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse empty can. Discard in trash.

**HOW ACME ROSE, FLOWER, SHRUB FOOD WITH SYSTEMIC WORKS**

**INTRODUCTION:** Acme Rose, Flower, Shrub Food With Systemic Insecticide is a plant food for rose feeding combined with a highly effective systemic insecticide. When applied according to directions, this product will provide the proper amount of plant food and systemic insecticide ~~necessary~~ to maintain ~~strong, healthy roses by reducing~~ and to reduce the damage normally caused by sucking insects (aphids, leafhoppers, spider mites, thrips) and certain chewing insects. The insecticide is taken up by the roots and moves in the sap stream to all parts of the plant (systemic action), even into the new growth.

**WHEN TO USE:** Apply when plants have about 1 inch of new growth in the spring and at 6 week intervals through the summer. This product will provide the proper amount of plant nutrients to maintain ~~strong~~ healthy plants. Each application will give at least 6 weeks control of the pests listed.

When used as directed, Acme Rose, Flower, Shrub Food with Systemic Insecticide will control these insects on roses, shrubs, and flowers.

Aphids	Mimosa Webworm
Birch leafminer	Pine tip moth
Holly leafminer	Spider mites
Lacebug	Thrips
Leafhoppers	Whiteflies

In addition to controlling insects for 6 weeks, Acme Rose, Flower, Shrub Food with Systemic Insecticide provides your roses with the proper amount of plant food necessary to maintain strong, healthy plants. First carefully read warnings and directions for use!

Ornamentals	Application Schedule	Amounts of Product to Apply	Remarks
Herbaceous Plants (Flowers, Bulbs, and Bedding Plants)	At Planting	5 teaspoons per 100 square feet	Apply evenly to seedbed and incorporate into the top 1 to 3 inches of soil. Plant seed or set plants and water thoroughly. Do not apply additional fertilizer for about 6 weeks.
	Established Plants	1 teaspoon per plant	Apply uniformly to the soil and around the base of established plants. Incorporate into top soil and water thoroughly after the application.
Roses	At Planting	1/4 teaspoon per plant	Divide the amount and apply to the bottom of hole and the remainder to the top 2 inches of soil. Water thoroughly.
	Established Roses, (Polyantha and Hybrid Tea Roses)	1/4 teaspoon per plant	Apply uniformly to the soil and around the base of established plants. Incorporate into top soil and water thoroughly after the application.
	Bush Roses	1/4 teaspoon per plant	Apply when 1 inch of growth appears in the spring. Repeat at 42 day intervals if needed.
	Climbing Roses	1/2 teaspoon per plant	
Ornamental Woody Shrubs	Established Plants Height of 1 to 3 feet	1/4 teaspoon per foot of growth	Apply specific amounts per foot of shrub height. Distribute granules evenly under the shrub canopy and incorporate into top 1 to 2 inches of soil. Water thoroughly. Repeat application at 28 to 42 days if necessary.
	Established Plants Height of 3 to 6 feet	1/2 teaspoon per foot of growth	
	Established Plants Height of 6 to 12 feet	3/4 teaspoon per foot of growth	
Potted Plants (Houseplants)		1 teaspoon per 6 inch pot	Thoroughly mix with soil and drench with water.
Equivalent Measures:	1 teaspoon of product weighs 0.17 ounces (4.82 grams) and contains 0.0482 grams of active ingredient. 1 ounce of product = approximately 6 teaspoons.		

**On Potted Plants:** Apply 2 level teaspoonfuls per 6 inch pot by punching a number of small holes into the pot soil with a pencil. Pour granules into the holes and thoroughly water the plants.

**Herbaceous Plants (Flowers, Bulbs, and Bedding Plants):**

**At Planting:** Apply 3.2 ounces of product per 10 square feet or 32 ounces of product per 100 square feet of soil as a broadcast treatment (Table 1). Incorporate the granules into the soil before planting or thoroughly water granules into the soil surface.

**Established Plants:** Apply five (5) ounces of product per 10 square feet to the soil around the base of established plants as a band treatment (Table 1). Incorporate the granules into the soil and water thoroughly after application.

**Roses:**

**At Planting:** Apply two (2) ounces of product per plant for new bushes (Table 1). Place one (1) ounce of product into the transplant hole and mix one (1) ounce of product in the top 2 inches of soil. Water thoroughly.

Established Roses: Apply the specified amount of product per plant according to Table 1. Apply the granules uniformly to the soil and around the base of the established plants. Incorporate the granules into the soil and water thoroughly.

**Ornamental Woody Shrubs:**

Determine the plant height and apply the specified amount of product per shrub according to Table 1. Distribute the granules evenly over the soil surface from the base to the dripline of the plant. Incorporate the granules into the top 1 - 2 inches of soil and water thoroughly.

Table 1. Recommended amounts of Acme® Rose, Flower, Shrub Food With Systemic Insecticide 8-8-8 Plant Food with soil applications.

Ornamentals	Application Schedule	Amount of Product to Apply		Remarks
		Quintals	Cups	
Herbaceous Plants (Flowers, Bulbs, and Bedding Plants)	At Planting	3.2 oz./10 ft <sup>2</sup>	½ cup./10 ft <sup>2</sup>	Apply evenly to seedbed and incorporate into the top 1 to 3 inches of soil (Preplant Broadcast). Plant seed or set plants and water thoroughly. Do not apply additional fertilizer for about 6 weeks.
	Established Plants	5 oz./10 ft <sup>2</sup>	¾ cup./10 ft <sup>2</sup>	Apply uniformly to the soil and around the base of established plants (Band treatment). Incorporate into the soil and water thoroughly after the application.
Roses	At Planting	2 oz./plant	¼ cup./plant	Divide the amount and apply to the bottom of transplant hole and the remainder to the top 2 inches of soil. Water thoroughly. Apply when 1 inch of growth appears in the spring. Repeat at 42 day intervals if needed.
	Established Roses, (Polyantha and Hybrid Tea Roses)	2 oz./plant	¼ cup./plant	
	Bush Roses	4 oz./plant	½ cup./plant	
	Climbing Roses	8 oz./plant	1 cup./plant	
Ornamental Woody Shrubs	Established Plants, Height of 1 to 3 ft	1' = 2 oz./plant 2' = 4 oz./plant 3' = 6 oz./plant	1' = ¼ cup./plant 2' = ½ cup./plant 3' = ¾ cup./plant	Apply specific amounts for the appropriate shrub height. Distribute granules evenly under the shrub canopy and incorporate into top 1 to 2 inches of soil. Water thoroughly. Repeat application at 28 to 42 days if necessary.
	Established Plants, Height of 3 to 6 ft	3' = 12 oz./plant 4' = 16 oz./plant 5' = 20 oz./plant 6' = 24 oz./plant	3' = 1½ cup./plant 4' = 1¾ cup./plant 5' = 2 cup./plant 6' = 2½ cup./plant	
	Established Plants, Height of 6 to 10 ft	6' = 36 oz./plant 7' = 42 oz./plant 8' = 48 oz./plant 9' = 54 oz./plant 10' = 60 oz./plant	— — — —	
Potted Plants (Houseplants)	—	—	2 tsp. per 6 inch pot	Thoroughly mix with soil and drench with water.

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Total Nitrogen (N), Min. ....	8%
5.1% Ammoniacal Nitrogen	
0.9% Nitrate Nitrogen	
1.4% Water Insoluble Organic Nitrogen	
0.6% Other Water Soluble Nitrogen	
Available phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	8%
Soluble potash (K <sub>2</sub> O).....	8%
Nitrogen derived from Ammoniated Superphosphate, Urea, Urea formaldehyde and Ammonium Sulfate	
Available Phosphate derived from Superphosphate and Triple Superphosphate. Soluble Potash derived from Muriate of Potash and Sulfate of Potash Magnesia.	
Potential Acidity 500 lbs. calcium carbonate equivalent per ton	

**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.

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**APPENDIX**

Site	Application Schedule	On-site Rate - Ozs. of Active Ingredient	Amount of Product - Ozs.
Herbaceous Plants	At Planting	0.032 oz. / 10 sq.ft.	3.2 oz. / 10 sq.ft.
	Established Plants	0.053 oz. / 10 sq.ft.	5.3 oz. / 10 sq.ft.
Roses	At Planting	0.02 oz. / plant	2.0 oz. / plant
	Established Roses		
	Hybrid Tea	0.02 oz. / plant	2.0 oz. / plant
	Bush	0.04 oz. / plant	4.0 oz. / plant
	Climbing	0.08 oz. / plant	8.0 oz. / plant
Woody Ornamentals	Plants 1 - 3' in height	0.02 oz. / foot of growth	2.0 oz. / foot of growth
	Plants 3 - 6' in height	0.04 oz. / foot of growth	4.0 oz. / foot of growth
	Plants 6 - 10' in height	0.08 oz. / foot of growth	6.0 oz. / foot of growth

(1) Source: USEPA, 1984. Guidance for Reregistration of Manufacturing Use Products and Certain End Use Products Containing Disulfoton (Chemical No. 032501), pp. 27-30.

II. Equivalent measures by volume and weight with a bulk density of 61 pounds/ cu. ft.

Dry Measure	Amount of Product - Ounces	Amount of Active Ingredient - Ounces
1.0 dry pint	18.98	0.190
1 cup	9.49	0.095
$\frac{2}{3}$ cup	6.36	0.064
$\frac{1}{2}$ cup	4.74	0.047
$\frac{1}{4}$ cup	2.37	0.024

III. Advertising claims that may be presented on the retail container.

- 1) kills sucking insects - feeds plants
- 2) Contains DI-SYSTON®
- 3) Insecticide is taken up by roots and moves in the sap stream to all parts of the plant (Systemic Action)...Even new growth!
- 4) 6 week all weather protection against aphids, leafhoppers, spider mites, thrips and certain other insects.