

PM03

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

2/17/99

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3125-172

FEB 17 1999

John S. Thornton
Director, Product Registrations
and Regulatory Affairs
Bayer Corporation
Agriculture Division
8400 Hawthorn Road
P.O. Box 4913
Kansas City, MO 64120-0013

Subject: Amendment - Label: Deletion of Use on Lettuce
Di-Syston 2% Granular Systemic Insecticide
EPA Registration No. 3125-83

Di-Syston Systemic Insecticide for Vegetables
EPA Registration No. 3125-126

Di-Syston 15% Granular Systemic Insecticide
EPA Registration No. 3125-172

Your submissions dated March 20, 1998

Dear Mr. Thornton:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. Stamped copies of the labeling is enclosed for your records.

Di-Syston 2% Granular Systemic Insecticide
EPA Registration No. 3125-83

- 1. Delete the phrase: "For terrestrial uses," from the beginning of the second sentence under Environmental Hazards. Refer to PR Notice 93-8.

CONCURRENCES							
SYMBOL	7505C						
SURNAME	Sproat						
DATE	2/17/99						

2. Revise the statement: "The dispose ofby burning" to read "Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning."under Container Disposal (Except Households)

Di-Syston Systemic Insecticide for Vegetables
EPA Registration No. 3125-126

1. As indicated above, delete the phrase: "For terrestrial uses,"from the beginning of the second sentence under Environmental Hazards
2. Delete "Do not apply broadcast applications to lawns"under Restrictions. This product is not approved for use on lawns.

Di-Syston 15% Granular Systemic Insecticide
EPA Registration No. 3125-172

1. Revise the row spacing rate chart for Di-Syston 15%G to include 12 and 18 inches, at 4.5 and 3.0 Lb 15%G/Acre, respectively, under Recommended Applications for Barley

If you have any questions, please call Dr. William Sproat of my team at 703-308-8587.

Sincerely,

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

Enclosure

cc: Philip Poli

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172-9120.YLD

U.S. LABEL

Base Pre-Reg (9120)

Reason to Issue: To remove lettuce from the label.

Date of Pre-Reg Draft: 03/13/98 (H)

FEB 17 1999

3125-172

RESTRICTED USE PESTICIDE
 Due to acute human oral, dermal, and inhalation toxicity
 For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Di-System® 15%

Granular Systemic Insecticide

For effective systemic crop protection.

ACTIVE INGREDIENT:

O,O-Diethyl S-[2-(ethylthio)ethyl]phosphorodithioate 15%
 INERT INGREDIENTS: 85%
100%

EPA Reg. No. 3125-172

Net Weight: ___ Pounds

STOP - Read The Label Before Use
KEEP OUT OF REACH OF CHILDREN

PELIGRO



DANGER

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Poisonous if swallowed, inhaled, or absorbed through the skin. Rapidly absorbed through the skin. Do not get in eyes or on skin. Do not breathe dust. Do not contaminate feed or food. Keep out of reach of children.

- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Personal Protective Equipment

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Water-proof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Text being added is highlighted by redlining.

Text being deleted is highlighted by ~~strikeout~~.

Di-System 15% G

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DI-SYSTON 15% Granular Insecticide

Engineering controls statements: When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

User Safety Recommendations continued:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SYMPTOMS OF POISONING: A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

STATEMENTS OF PRACTICAL TREATMENT

Organophosphate

TREATMENT: In case of poisoning, call a physician immediately. Have patient lie down and keep quiet. If swallowed: Vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If on skin: Remove contaminated clothing and wash skin immediately with soap and warm water. Get medical attention immediately. If eyes are contaminated: Wash with plenty of flowing water. Get medical attention immediately.

To Physician: ANTIDOTE - Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered but only in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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 evening and early morning.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS continued

(PPE), notification to workers, and restricted-entry interval.

The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

Each 48 hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment



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DI-SYSTON 15% Granular Insecticide

AGRICULTURAL USE REQUIREMENTS continued

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

IMPORTANT: Read these entire Directions and Conditions of Sale before using DI-SYSTON 15% Granular Systemic Insecticide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE

TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

DI-SYSTON 15% Granular Systemic Insecticide enters the plant through the root system. The insecticide when placed near the roots, is picked up and moves in the sap stream to all parts of the plant where it kills insects as they feed on the plant.

This formulation of DI-SYSTON 15% Granular is highly versatile and may be applied by various methods. It can be drilled in the furrow with seed, broadcast, or banded on each side of the seed furrow. Foliage broadcast application may be applied by ground or air equipment. Time and method of application and limits for use are discussed in detail for each specific crop under "Remarks" below.

As a preplant treatment for ornamental flowers, shrubs, and trees, apply granules evenly to seed bed and mix into soil; seeds or transplants are then placed in the normal manner. Established plants may be treated by distributing granules uniformly under foliage canopy. Work the granules uniformly into top soil and water thoroughly. The active ingredient will move into the root zone and be taken up by the root system.

RECOMMENDED APPLICATIONS

IMPORTANT: When used on cotton ^{or} beans, or lettuce at the maximum recommended rates under adverse conditions such as extremely cool or wet or extremely dry weather, DI-SYSTON Systemic Insecticide may cause some delay in emergence, stunting of seedlings, or reduction of stand. Such damage may be more pronounced in light, sandy soils. Plant injury may also occur or may be enhanced when certain pre-emergent herbicides are used in conjunction with DI-SYSTON.

RECOMMENDED APPLICATIONS															
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS												
FIELD CROPS Barley	Aphids* Grasshoppers Hessian fly Mites (Except Wheat curl mite) Thrips	6.7 lb per acre	Apply by drilling or broadcast at planting time, or as a broadcast after emergence. Do not apply more than twice per season nor within 60 days of harvest for grain. Allow a minimum of 21 days between applications. Do not graze or cut for forage within 30 days of treatment. For control of Hessian fly, apply at planting. In addition, foliar application of DI-SYSTON 8 to control later generations in southern growing areas may be beneficial.												
ROW SPACING RATE CHART FOR DI-SYSTON 15% G															
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* Due to greenbug resistance in certain areas, DI-SYSTON used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.
 ** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.

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RECOMMENDED APPLICATIONS

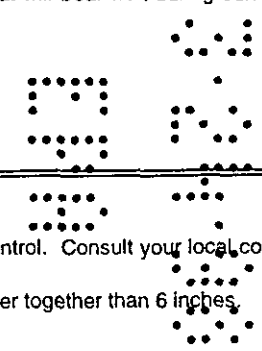
CROP	INSECT	DOSAGE - DI-SYSTON 15% G	REMARKS												
<p>FIELD CROPS continued Cotton</p>	<p>Aphids* Mites Thrips (Except Western flower thrips)</p>	<p>5 to 8 oz/1000 sq ft of row** (for any row spacing) OR 4 to 6.7 lb/A (40 inch row spacing)</p>	<p>Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop.</p> <p style="text-align: center;">RATE CHART FOR APPLICATION</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 33%;"><u>Heavy Soils</u></td> <td style="text-align: center; width: 33%;"><u>Medium Soils</u></td> <td style="text-align: center; width: 33%;"><u>Light Soils</u></td> </tr> <tr> <td style="text-align: center;">8 oz 15% G/ 1000 ft of row</td> <td style="text-align: center;">6.6 oz 15% G/ 1000 ft of row</td> <td style="text-align: center;">5 oz 15% G/ 1000 ft of row</td> </tr> <tr> <td style="text-align: center;">OR</td> <td style="text-align: center;">OR</td> <td style="text-align: center;">OR</td> </tr> <tr> <td style="text-align: center;">6.7 lb 15% G/acre</td> <td style="text-align: center;">5.3 lb 15% G/acre</td> <td style="text-align: center;">4 lb 15% G/acre</td> </tr> </table> <p>DO NOT FEED TREATED COTTON FORAGE.</p> <p>At Planting/Replanting: Place the granules in the seed furrow or in a soil incorporated band on each side of the furrow. This application may be used in conjunction with a fungicide application which is registered and recommended for disease control on this crop.</p> <p>This at plant soil application of DI-SYSTON may be used in conjunction with a preemergent surface applied or preplant incorporated treatment of Command herbicide. Refer to the herbicide product label for appropriate preplant or preemergent herbicide application directions and use rates. Do not reduce the application rate of DI-SYSTON insecticide when Command herbicide is applied as a banded treatment.</p> <p>Post Plant: (Irrigated Cotton Only) If an additional treatment is necessary, make one soil incorporated side-dress application. Do not apply more than twice per season. Allow at least 21 days between applications and at least 28 days between last application and harvest.</p>	<u>Heavy Soils</u>	<u>Medium Soils</u>	<u>Light Soils</u>	8 oz 15% G/ 1000 ft of row	6.6 oz 15% G/ 1000 ft of row	5 oz 15% G/ 1000 ft of row	OR	OR	OR	6.7 lb 15% G/acre	5.3 lb 15% G/acre	4 lb 15% G/acre
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<p>Peanuts</p>	<p>Aphids Leafhoppers Mites Thrips (Except Western flower thrips)</p>	<p>7.4 to 14.7 oz/1000 ft of row (for any row spacing**) OR 6.7 to 13.3 lb/A (36-inch row spacing)</p>	<p>Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop.</p> <p>Apply specified dosage per acre in-furrow or as a soil incorporated band on each side of the seed at planting or as a soil incorporated side-dressing after plants are established.</p> <p>In conjunction with this soil application of DI-SYSTON, Basagran herbicide may be used at cracking or early postemergence at rates up to 1 pint/acre. Do not make a second application of Basagran until 21 days after peanut emergence. Do not apply more than 1.0 pint/acre of Basagran in single or multiple applications until 21 days after peanuts have emerged.</p>												
<p>Sorghum</p>	<p>Aphids* (Greenbugs)</p>	<p>6 to 8 oz/1000 ft of row (for any row spacing**) OR 5 to 6.7 lb/A (40-inch row spacing)</p> <p>8 oz/1000 ft of row (for any row spacing**) OR 6.7 lb/A (40-inch row spacing)</p>	<p>PLANTING: IN-FURROW Place the granules in the seed furrow approximately 1/2 inch above the seed at planting. Do not apply directly on the seed. See "NOTE" below.</p> <p>PLANTING: BAND Place the granules in a 4 to 6 inch soil incorporated band directly behind the planter shoe in front of the press wheel. Do not apply directly on the seed. See "NOTE" below.</p> <p>POST-PLANTING: WHORL Apply specified dosage by broadcasting into the whorl. Do not apply more than 1 time per season.</p> <p>Allow at least 30 days between last application and harvest of grain and at least 45 days between last application and harvest for forage or fodder.</p> <p>APPLICATION NOTE: (1) The post-planting broadcast application into the whorl may be made following an at-planting application.</p>												

* Due to greenbug resistance in certain areas, DI-SYSTON used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.

** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.

DI-SYSTON 15% Granular Insecticide

RECOMMENDED APPLICATIONS																			
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS																
FIELD CROPS continued Soybeans	Aphids Leafhoppers Mites Thrips (Except Flower thrips) Mexican bean beetle	8 oz/1000 ft of row (for any row spacing**) OR 6.7 lb/A (36 inch row spacing)	Place the granules in a 4-inch soil incorporated band over the seed furrow behind the planter shoe and in front of the press wheel or in a soil incorporated band on each side of the seed furrow at planting time. Do not apply directly on the seed. Allow at least 75 days between application and harvest of forage or hay. Soybeans Grown for Seed Only: As an alternate to the applications above, soybeans grown for seed only can be treated with a soil incorporated side-dress after plants are established. Soybeans treated in this way should not be pastured and the treated crop cannot be used for feed, food or forage.																
Tobacco	Aphids Flea beetles Thrips (Except Western flower thrips) Southern potato wireworm (See NOTE)	Transplant Seed Beds: 1 oz/100 sq ft of bed	Apply evenly over bed area. Incorporate the granules thoroughly into the top 2 to 3 inches of soil; seed beds in normal manner. An alternative treatment may be made by broadcasting the granules evenly over the plants after emergence and watering to thoroughly incorporate the granules. Only one application may be made to transplant seed beds.																
		Field Application: 20 to 40 oz/1000 ft of row (for any row spacing**) OR 13.3 to 26.7 lb/A (broadcast or with 48 inch row spacing)	Apply in a 6- to 12-inch soil incorporated band over the row or as a soil incorporated broadcast treatment immediately before transplanting. Incorporate the granules by working them into the top 2 to 3 inches of soil. Plant crop in the usual way. Only one field application may be made per crop season regardless of DI-SYSTON formulation used.																
NOTE: DI-SYSTON 15% Granular will aid in control of the Southern potato wireworm.																			
Wheat (Fall)	Aphids (Greenbugs)* (Bird cherry-oat) Grasshoppers Hessian fly Mites (Except Wheat curl mite)	1.67 oz/1000 ft of row up to 6.7 lb/A **	Apply by drilling or broadcast at planting time in the fall. Make only one application and do not graze or cut for forage within 75 days of treatment. For control of Hessian fly, apply at planting. In addition, foliar application of DI-SYSTON 8 to control later generations in southern growing areas may be beneficial. ROW SPACING RATE CHART FOR DI-SYSTON 15% G <table border="1"> <thead> <tr> <th>Row Spacing**</th> <th>Lb 15% G / Acre</th> <th>Row Spacing**</th> <th>Lb 15% G / Acre</th> </tr> </thead> <tbody> <tr> <td>6, 7, or 8</td> <td>6.7</td> <td>14</td> <td>3.9</td> </tr> <tr> <td>10</td> <td>5.4</td> <td>16</td> <td>3.4</td> </tr> <tr> <td>12</td> <td>4.5</td> <td>18</td> <td>3.0</td> </tr> </tbody> </table>	Row Spacing**	Lb 15% G / Acre	Row Spacing**	Lb 15% G / Acre	6, 7, or 8	6.7	14	3.9	10	5.4	16	3.4	12	4.5	18	3.0
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FRUIT Coffee (Puerto Rico only)	Leaf miner	2 to 4 grams/ft of tree height	Distribute granules uniformly under the tree canopy. Do not apply more than twice per year. Make no more than one pre-harvest and one post-harvest application. Do not make the pre-harvest application within 90 days of harvest.																
NON-BEARING FRUIT Fruit Trees (apples, apricots, cherries, crabapples, peaches, pears, plums, and prunes)	Aphids Lace bug Leafhoppers Mites Thrips Whiteflies	0.16 to 1.56 lb/tree OR 2.5 oz per inch of trunk diameter	Spread granules uniformly from trunk to drip line on all sides. Work into soil and water thoroughly. The higher dosage is recommended for heavy organic or muck soils. For transplanting, equivalent quantities should be applied into planting hole. Do not apply to trees that will bear fruit during current crop year.																



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 ** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.

RECOMMENDED APPLICATIONS

CROP	INSECT	DOSAGE - DI-SYSTON 15% G	REMARKS
NON-BEARING FRUIT continued Strawberries (Propagating Plants only)	Aphids Mites (except Cyclamen mite)	17 to 34.4 oz per 1000 feet of row (for any row spacing**) OR 13.3 to 26.7 lb/A (42-inch row spacing)	Apply by side-dressing on each side of the row or by broadcasting over the row as needed. Do not use fruit from treated plants for food purposes.
Raspberries (Nursery stock only) (Northeast States Only)	Aphids	53.3 lb/A	BAND APPLICATION: Apply specified dosage in a 24-inch band over the row to new or established plantings. Work granules 2 to 3 inches into the soil using a cultivator or other suitable equipment. A second application of granules may be applied to the soil later in the season. Consult your State Agricultural Experiment Station or Extension Service for proper timing of applications.
NUTS Pecans (South Central and Southwestern States)	Aphids	10 to 20 lb/A	Apply by treating 6-foot bands of soil on both sides of the trees. The bands should be located under the main drip area of the trees. Work the granules into the upper 2 to 3 inches of soil. On irrigated pecans, apply water as soon as possible after treatment. Make only 1 soil application of granules per season. Early spring treatment is recommended. Do not harvest nuts within 80 days of treatment. Do not graze grass under treated trees. Do not mix this product with Phosalone.
VEGETABLES Beans	Aphids Leafhoppers Mexican bean beetle (larvae) Mites Thrips	6 to 12 oz per 1000 feet of row (for any row spacing**) OR 6.7 to 13.3 lb/A (30-inch row spacing)	Read 'IMPORTANT' statement under 'RECOMMENDED APPLICATIONS' for additional information before use on this crop. For snap or green Lima beans, place the granules in a soil incorporated band on each side of the seed furrow at planting time only. For dry beans, apply as above at planting time or as a soil incorporated side-dressing on each side of the row. Allow at least 60 days between application and harvest. Do not apply directly on the seed. Only one application is allowed per season. Do not feed vines or hay.
Brussels Sprouts Broccoli Cabbage (Includes tight-heading varieties of Chinese cabbage) Cauliflower	Aphids Flea beetles Leafhoppers	7.4 oz/1000 ft of row (for any row spacing**) OR 6.7 lb/A (36-inch row spacing)	Do not apply to vegetables grown for seed. Transplant Seed Beds: Apply granules evenly over bed area. Thoroughly incorporate into the top 2 to 3 inches of soil; seed beds in normal manner. An alternate seed bed treatment may be made by broadcasting the granules evenly over the plants after emergence and watering to thoroughly incorporate the granules. Do not apply more than one seed bed treatment. Field Applications: Place the granules as a soil incorporated band on each side of the seed furrow or transplanted row at planting and/or as a soil incorporated side-dressing after plants become established. Do not apply directly on the seed.
Brussels Sprouts	Mites Thrips		Only one field application is allowed for broccoli and cabbage. For broccoli, allow at least 14 days between application and harvest. For cabbage, allow at least 42 days between application and harvest.
Cabbage (Includes tight-heading varieties of Chinese cabbage)	Root Aphid	11.3 oz/1000 ft of row (for any row spacing**) OR	Two field applications are allowed for brussels sprouts and cauliflower. Allow a minimum of 21 days between applications. For brussels sprouts, allow at least 30 days between last application and harvest. For cauliflower, allow at least 40 days between last application and harvest.

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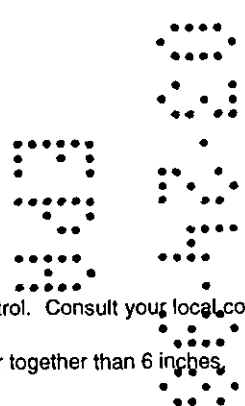
** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.

DI-SYSTON 15% Granular Insecticide

9-111

RECOMMENDED APPLICATIONS			
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS
Vegetables continued Lettuce	Aphids Leafhoppers Mites Thrips Root aphid	4 to 8 oz/1000 ft of row (for any row spacing**) OR 6.7 to 13.3 lb/A (20-inch row spacing)	Read "IMPORTANT" statement under "RECOMMENDED APPLICATIONS" for additional information before use on this crop. Spring or Summer Seeded Lettuce: Use the higher rate on heavy organic soils. Place the granules in a soil incorporated band on each side of the row at seeding time only. Do not apply directly on the seed. Do not apply to transplanted lettuce.
Peas Lentils	Aphids Leafhoppers	6.7 to 16.7 lb/A	Apply by drilling or broadcasting at planting time, or as a soil incorporated side-dress on each side of the row after emergence. Do not apply more than once per season nor within 50 days of harvest. Do not feed vines or hay.
Peppers	Aphids	6.7 to 13.3 oz/1000 ft of row (for any row spacing**) OR 6.7 to 13.3 lb/A (32-inch row spacing)	Place the granules in a soil incorporated band on each side of seed furrow at planting or at transplanting. Do not apply more than once per crop season nor within 90 days of harvest. Do not apply directly on the seed.
Potatoes	Aphids Flea Beetles (except tuber flea beetles) Leafhoppers Potato psyllid Southern potato wireworm Colorado potato beetles (early season reduction)	15 to 23 oz/1000 ft of row (for any row spacing**) OR 13.5 to 20.5 lb/A (38-inch row spacing)	ROW TREATMENTS Place the granules in the seed furrow or in a soil incorporated band on each side of the seed furrow at planting. An additional application may also be made as a soil incorporated side-dress after plants become established. Use the higher rate on heavy organic soils.
		20 to 26.7 lb/A	BROADCAST APPLICATION Apply specified dosage per acre as a preplant broadcast application. Incorporate granules into soil to a depth of 2 to 3 inches using a disc or other suitable equipment. Plant crop in usual manner. A postemergence soil incorporated side-dress may also be made after the plants become established. A total of 2 soil incorporated applications (row treatments and/or broadcast) is allowed per season. Allow at least 75 days between last application and harvest. East of the Rocky Mountains foliar applications of DI-SYSTON 8 may be made in addition to an at-planting soil incorporated treatment. Refer to label for DI-SYSTON 8. Do not mix this product with Phosalone.
Colorado potato beetle populations in Northeast U.S. (except Maine) and in Virginia and North Carolina have developed resistance to some insecticides, including DI-SYSTON. Consult your state extension agent/agricultural advisor for insect resistance management strategies and recommended insect control methods for your area.			

* Due to greenbug resistance in certain areas, DI-SYSTON used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural advisor or Bayer representative for details.
 ** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.



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DI-SYSTON 15% Granular Insecticide

RECOMMENDED APPLICATIONS			
CROP	INSECT	DOSAGE DI-SYSTON 15% G	REMARKS
ORNAMENTALS Flowers and Groundcover	Aphids Lace bug Leafhoppers Mites Thrips Whiteflies	3.5 to 7.25 oz per 100 ft of row	ROW TREATMENT As a row treatment apply in a band on each side of the seed furrow, or as a band over the row. Incorporate thoroughly into soil and water heavily. The higher dosage is recommended for heavy organic or muck soils. For treatment of Easter lilies and gladiolus, apply in the furrow over the bulbs after they are set, but before covering with soil. Do not make in-furrow applications to garden lily bulbs.
		7 oz per 100 sq ft	BROADCAST For mass planting apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. Granules must be incorporated in the soil by mechanical means or thoroughly watered in so no pesticide remains on the soil surface. Repeat applications at 4 to 6 week intervals if necessary.
		2 grams per sq ft	POTTED PLANTS For application to potted plants, determine surface area of container, [diameter (inches) squared x 0.7865 divided by 144 equals square feet area of container]. Apply appropriate amount of DI-SYSTON 15% Granular by thorough incorporation as directed.
Shrubs Trees (Including Christmas trees)	Aphids Birch leaf miner Camellia scale Elm leaf beetle European elm scale Holly leaf miner Lace bug Leafhoppers Mimosa webworm Mites Pine tip moth Soft scale (<i>Coccus hesperidium</i>) Tea scale Thrips Whiteflies	SHRUBS 3.75 to 7.5 grams per foot of height	SHRUBS Apply specified dosage per foot of shrub height. For shrubs 1-3 feet tall apply the lower rate and on plants 3-6 feet in height apply the higher rate. Distribute granules uniformly under the shrub canopy, incorporate thoroughly into the soil, and water heavily. Repeat applications at 4 to 6 week intervals if necessary.
		TREES 2.5 oz per inch of trunk diameter measured 4 feet from the ground	TREES Broadcast: Spread granules uniformly from trunk to drip line on all sides. Incorporate thoroughly into soil and water heavily so that no pesticide remains on the soil surface. Transplants: For transplanting, equivalent quantities should be applied in the planting hole. Uniformly mix DI-SYSTON 15% Granular in the bottom one-half of the backfilled soil when planting. A minimum of 6 inches of untreated soil should be placed on the backfilled soil. Soil Implant: With an auger or soil sampling tool, dig 2 equally spaced holes for each inch of trunk diameter. (Do not use less than 4 holes per tree.) Dig the holes 9 to 12 inches deep under the drip line. Place an equal amount of DI-SYSTON 15% Granular in each hole. Fill the holes to the surface with soil, compress, and add additional soil to level. Keep the treated area moist for 7 to 10 days.
		5 lb/1000 linear ft of row OR a soil injection 4 to 6 inches beneath the soil surface in 1 or 2 linear application trenches	Soil Injection: Use an opening disk or shoe to make a furrow 4 to 6 inches deep between trunk and drip line of tree parallel to the direction of the row. Apply DI-SYSTON 15% Granular through a tube so that the material is deposited in the bottom of the furrow. A device to close and seal the furrow should be used following the placement of the material so that no granules are present on the soil surface.

- * Due to greenbug resistance in certain areas, Di-Syston used alone may not provide satisfactory control. Consult your local cooperative extension service, agricultural adviser or Bayer representative for details.
- ** On row crops where row spacing is extremely narrow, do not place treated zones (band or furrow) closer together than 6 inches.

Equivalent Measures of DI-SYSTON 15% Granular

1 level teaspoonful = 3 grams 10 level teaspoons = 1 ounce

DI-SYSTON 15% Granular Insecticide

TREATMENT OF INDIVIDUAL POTS WITH DI-SYSTON 15% GRANULAR					
POT SIZE (Inches Diameter)	SURFACE Square Feet	GRAMS/POT DI-SYSTON 15% G	POT SIZE (Inches Diameter)	SURFACE Square Feet	GRAMS/POT DI-SYSTON 15% G
2.25	0.028	0.06	5.5	0.165	0.33
2.5	0.034	0.07	6.0	0.196	0.40
3.0	0.049	0.10	7.0	0.267	0.53
3.5	0.067	0.13	8.0	0.349	0.70
4.0	0.087	0.17	10.0	0.545	1.10
4.5	0.11	0.22	12.0	0.785	1.60
5.0	0.136	0.27			

RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not treat crops grown in the greenhouse.

Do not apply this product with a knapsack or other equipment that is placed on the user's body.

STORAGE AND DISPOSAL

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244, or contact Chemtrec at 800-424-9300.

