125-125-12 10015

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14 NOV 1984

G. E. Brussell
Mobay Chemical Corp.
Agriculture Chemicals Div.
P.O. Box 4913
Kansas City, MO 64120

Dear Mr. Brussell:

Subj: Amendment - Add Nove Restrictive Grazing Restriction DI-SYSTON 15% Granular EPA Reg. No. 3125-172
Your Application Dated October 12, 1984

The amendment referred to above, submitted in connection with registration under PIFRA sec. 3(c)(7)(A), is acceptable provided that you:

- 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Submit five (5) copies of your final printed labeling before your release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling in enclosed for your records.

Sincerely yours,

George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Registration Division (T8-767C)

	 CONC	URRENCES	 <del></del>	<del></del>
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Base Reg. (5090)

PM1 \$

U.S. LABEL

Reason to Issue: To add grazing restrictions on alfalfa, peanuts, rice, sorghum, wheat & pecans.

Date of Draft: 10/5/84 (B)
Supersedes Draft Dated: 9/30/83

EPA Reg. No. 3125-172-AA

BDI-SYSTON

#### 15% GRANULAR

#### SYSTEMIC INSECTICIDE

FOR USE BY COMMERCIAL GROWERS OR PROFESSIONAL APPLICATORS
NOT FOR HOME GARDEN USE

FOR EFFECTIVE SYSTEMIC CROP PROTECTION

NET WEIGHT

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POUNDS

DANGER POISON

ACTIVE INGREDIENT:

KEEP OUT OF REACH OF CHILDREN (See Back Panel for Statements of Practical Treatment and Other Precautionary Statements)

EPA Reg. No. 3125-172-AA

STOP - READ THE LABEL BEFORE USE

PEL TGRO

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.) ACCEPTED

with COMMENTS
in EPA Letter Dated:

NOV 1 4 1984

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

MOBAY CHEMICAL CORPORATION
AGRICULTURAL CHEMICALS DIVISION
Box 4913, Kansas City, Missouri 64120

Note: Underlined letters in chemical nomenclature should be italicized when printed, not underlined.

UEUI MINILHULL UUTY

DI-SYSTON 15% Granular

#### DIRECTIONS FOR USE

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

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

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. MOBAY 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 MOBAY 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. Mixing the granules into top soil and watering will accelerate entry into the plant, as the chemical will leach into the root zone and be taken up by the root system.

#### RECOMMENDED APPLICATIONS

IMPORTANT: When used on cotton, sugar beets, tomatoes, 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 DISYSTON.

		DOSAGE DI-SYSTON	
CROP	INSECT	15% Granular	REMARKS
FIELD CROPS			Apply only one broadcast treatment but
,			not within 28 days of grazing or
Alfalfa '	[∙Ap` ds	6.7 pounds per	cutting for forage. Make only one
	Mites	acre	application per crop season.
	1	l	Apply by broadcast treatment as
Clover	Aphids	6.7 pounds per	needed but not within 7 days of har-
	Mites	acre	vest or grazing. Allow a minimum of
100			28 days between applications.
	<u> </u>	i i	Apply by drilling or broadcast at
		1	planting time, or as a broadcast
r c			after emergence. Do not apply more
bathey	, / Aphids	6.7 pounds per	than twice per season nor within 60
Oats	Mites	acre	days of harvest for grain. Allow a
	´-	1	minimum of 21 days between applics-
		(	tions. Do not graze or cut for
		1	forage within 30 days of treatment.

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DI-SYSTON 15% Granular

## RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE DI-SYSTON 15% Granular	REMARKS
	OPS (Continued)	IJA GLAHULAL	Corn Rootworms: For control of rootworms,
Corn	Rootworms Aphids Leafhorpers Mites Thrips	8 ounces per 1000 feet of row (for any row spacing*) or 6.7 pounds per acre (40 inch row spacing)  NOTE: Do not apply to corn more than twice per season regardless of the method of application.	place the granules in a 4- to 6-inch band directly behind the planter shoe in front of the press wheel. Do not place granules in direct contact with the seed. A second application of granules may be applied to the soil as a side-dress treatment later in the season.  Aphida, Mites, Thrips, and Leafhoppers: For control of these insects apply granules to the soil as a side-dress treatment or to the foliage by broadcasting into the whorl. Do not apply DI-SYSTON 15% Granular within 40 days of harvesting for food, feed or ensilage.
Cotton	Aphids Mites Thrips	5 to 8 ounces per 1000 feet of row (for any row spacing*) or 4 to 6.7 pounds per acre (40 inch row spacing)	At Planting: Place the granules in the seed furrow or in a band on each side of the furrow.  RATE CHART FOR PLANTING TIME  APPLICATION  Heavy Soils Medium Soils Light Soils  8 oz. 15% 6.6 oz. 15% 5 oz. 15% Gran.  Gran./1000 Gran./1000 1000 ft. of row ft. of row ft. of row 4 lbs. 15% 6.7 lbs. 15% 5.3 lbs. 15% Gran./acre  Gran./acre. Gran./acre.  Post-Plant: (Irrigated Cotton Only) If an additional treatment is necessary make one side-dress application or a single broadcast application over the foliage.  Rates up to 13.3 pounds per acre can be applied to first squaring cotton (90 days before harvest) and rates up to 6.7 pounds per acre can be applied to within 28 days of harvest. Do not apply more than twice per season. Allow a minimum of 21 days between applications. Read "IMPORTANT" statement under "Recommended Applications" for additional information before use on this crop.
		2.5 to 3.3 ounces per 1000 feet of row (for any row spacing*) -or- 2 to 2.7 pounds per acre (40-inch row spacing)	HILL DROPPED COTTON: Apply specified dosage with the seed at planting. Use the lower rate where hill spacing is greater than 14 inches apart or where applications are made to light, sandy soils. Read IMPORTANT statement under "Recommended Applications" for additional information before use on this crop.

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## DI-SYSTON 15% Granular

		DOSAGE DI-SYSTON	
CROP	INSECT	15% Granulac	REMARKS
FIELD CRO	OPS (Continued)		Uniformly spread the granules in a 6 inch square area at the base of each plant. For
Hops	Aphids Mites	13.3 to 26.7 pounds per acre	standard 7 ft. by 7 ft. hopyard spacing,
		(See Remarks)	teaspoonfuls) per plant. Apply in mid-to late June, just prior to hilling. Hilling operation should cover granules with soil. Irrigate as normal crop culture requires.
	<del> </del>	7.4 to 14.7 ozs.	Do not graze or feed crop refuse.
	Aphids	per 1000 feet of	Place the granules in a band on each side of the seed furrow at planting, or as a
	Leafhoppers	row (for any row	side-dressing after plants are established.
Peanuts	Mites	spacing*) -or-	Do not apply directly on the seed. Where
, canaes	Thrips	6.7 to 13.3 lbs.	necessary, granules may be applied in a
	1,112,40	per acre (36 inch	band over the row or as a side-dressing
		row spacing)	at pegging time. Do not feed treated vines.
	<del> </del>		Apply as a broadcast application at plant-
Rice	Leafhoppers	13.3 lbs. per acre	ing or prior to flooding. Do not apply
			more than twice per season nor within 100
		]	days of harvest. Do not use straw for forage
	<u> </u>		fodder, or bedding purposes.
		6 to 8 ozs. per	APPLICATION AT PLANTING: IN-FURROW
		1000 ft. of rew	Place the granules in the seed furrow
		(for any row	approximately 1/2 inch above the seed
		spacing*) -or-	at planting. Do not apply directly on the seed. See "NOTE" below.
		5 to 6.7 pounds per acre (40 inch	the seed. See NOIL Delow.
Sorghum	Aphids	row spacing)	
Sorgian	(Greenbugs)	Tow spacing)	APPLICATION AT PLANTING: BAND
	(See "NOTE"	8 ozs. per 1000	Place the granules in a 4 to 6 inch band
	below)	ft. of row (for	directly behind the planter shoe in front
	,	any row spacing*)	of the press wheel. Do not apply direct-
		or	ly on the seed. See "NOTE" below.
		6.7 pounds per	POST-PLANTING APPLICATION: WHORL
		acre (40 inch	Apply specified dosage by broadcasting
		row spacing)	into the whorl. Do not apply more than
			3 times per season nor within 30 days of
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		harvest of grain or 45 days of harvest
	r -	NOTE: (1) P	for forage or fodder. See "NOTE" below.
		, <del></del>	nting broadcast applications into the
			ollowing an at-planting application. (2)
. : :	Julius 7		istance in certain areas, DI-SYSTON used de satisfactory control. Consult your
•	0.7		advisor or Extension Service for recommen-
1.1.5.2		dations.	Pastron of pyrematon seratce for recommen-
<del></del>	Thrips		Place the granules in a 4 inch band over
# @ # 3 W H	(except		the seed furrow behind the planter shoe
To a S	flower	6.7 pounds per	and in front of the press wheel or in a
Soybeans	thrips)	acre (36 inch row	band on each side of the seed furrow at
-	Mexican bean	spacing)	planting time. Do not apply directly on
	beetle		the seed.

<del></del>	T	DOSAGE DI-SYSTON	PLICATIONS (Continued)
CROP	INSECT	15% Granular	REMARKS
	OPS (Continued)	137 3741412	Place the granules in the seed furrow 2
Sugar Beets	Aphids Leafhoppers Mites	6 ounces per 1000 feet of row (for any row spacing*) or 6.7 lbs. per acre (30 inch row spacing)	inches under the seed or in a band on each side of the seed furrow at planting; or apply to foliage and crown after emergence. Do not apply directly on the seed. Do not apply more than 3 times per season nor within 30 days of harvest. Allow a minimum of 21 days between applications. Read "IMPORTANT" statement under "Recommended Applications" for additional information before
Sugar Beets (North Dakota & Minneso	Root maggot	4.5 ozs. per 1000 feet of row (for any row spacing*) or 6.7 lbs. per acre (22 inch row spacing)	apply in a 4 to 6 inch band directly behind the planter shoe in front of the press when the granules should be placed approximately linch above the seed. Do not allow granul to come into direct contact with the seed. Read "IMPORTANT" statement under "Recomment Applications" for additional information before use on this crop.
Tobacco	Aphids Flea beetles	Transplant Beds:  1 ounce per 100 square feet of bed  Field Application: 20 to 40 ounces per 1000 feet of row (for any row specing*) -or-	Apply evenly over bed area. Work the granules into the top 2- to 3-inches of soil and seed beds in normal manner. An alternative treatment may be made by broadcasting the granules evenly over the plants after emergence and watering thoroughly. Do not make more than one application to transplant beds  Apply in a 6- to 12-inch band over the row or as a 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 was
	Southern Potato wireworm	13.3 to 26.7 lbs. per acre (broad- cast or with 48 inch row spacing) 13.3 to 26.7 lbs. per acre	Do not make more than one field application per crop season regardless of DI-SYSTON formulation used.  When applied as described for FIELD APPLICATION above, DI-SYSTON 15% Granular will aim control of this wireworm.

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## DI-SYSTON 15% Granular

- <u>-</u> -	<u> </u>	DOSAGE DI-SYSTON	
CROP	INSECT	15% Cranular	REMARKS
FIELD CRO	PS (Continued)		
Wheat (Fall)	Hessian fly Aphids (Greenbugs) (Oat bird cherry) Grasshoppers	6.7 lbs. per acre or 1.7 oz/1000 ft of row (see chart below)	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.  NOTE: Due to greenbug resistance in certain areas, DI-SYSTON used alone may not provide satisfactory control. Consult your local agricultural advisor or Extension Service for recommendations.
SEED FIEL	D CROPS		
Soybeans	Aphids Leafhoppers Mites Thrips	8 ounces per 1000 feet of row (for any row spacing*) or 6.7 pounds per acre (40 inch row spacing)	Flace the granules in a band on each side of the seed furrow at planting or as a side-dressing after plants are established. Do not pasture or use treated crop for feed, food, or forage. Do not apply directly to seed.
FRUIT			Distribut: granules uniformly under the tree
Coffee (Puerto Rico Only)	Le f miner	2 to 4 grams per foot of tree height	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.
Pineapple	Mealybug	16.7 lbs. per acre	Apply as a broadcast application, recopically by base leaf feeding after plants he developed root systems. Repeat as necessare but not more than twice per crop period nor of thin 60 days of harvest. When two treatments are used, do not ensile foliage less than one year after last application.
NON-BEARI	NG FRUIT		
Fruit Trees (apples, apricots cherries crab- apples, peaches, pears, plums, & prunes	Aphids Lace bug Leafhoppers Mites Thrips Whiteflies	2.5 to 27 ounces per tree or 2.5 ounces 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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DI-SYSTON 15% Granular

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	<del></del>	RECOMMENDED APPLIC DOSAGE DISYSTON	ATIONS (Continued)
CROP	INSECT	15% Granular	REMARKS
	NG FRUIT (Conti		
		17 to 34.4 ozs.	
Straw-	Aphids	per 1000 feet of	
berries	Mites	row (for any row	Apply by side-dressing on each side of the
(Propaga-	(except	spacing*) -or-	row or by broadcasting over the row as needed
ting	cyclamer	13.3 to 26.7 lbs.	Do not use fruit from treated plants for foo-
Plants	mite)	per acre (42 inch	purposes.
Only)	<u></u>	row spacing)	<u> </u>
Rasp- berries			BAND APPLICATION: Apply specified dosage in a 24-inch band over the row to new or established plantings. Work granules 2 to 3
(Nursery		}	inches into the soil using a cultivator or
stock	Aphids	53.3 lbs. per acre	other suitable equipment. A second applica-
only)	1	33.3 233. per dere	tion of granules may be applied to the soil
(Northea	l st		later in the season. Consult your State
States		}	Agricultural Experiment Station or Extension
			Service for proper timing of applications.
NUTS			Apply by treating 6-foot bands of soil on both sides of the trees. The bands should
Pecans	]	J	be located under the main drip area of the
(South	Aphids	10 to 20 pounds	trees. Work the granules into the upper 2
Central	1	per acre	to 3 inches of soil. On irrigated pecans,
& South	J	1	apply water as soon as possible after treat-
western	1		ment. Make only 1 application per season.
States)	]	1	Early spring treatment is recommended. Do
(Note I)			not harvest nuts within 80 days of treatment.
VEGETABLE	<del></del>	<del></del>	Do not graze grass under treated trees.
VECETABLE	<u>s</u>	1	For snap or green Lima beans, place the granules in a band on each side of the seed
	Aphids	6 - 12	furrow at planting time only. For dry beans,
	Leafhoppers	6 to 12 ounces per 1000 feet of row	apply as above at planting time on as a side-
Beans	Mexican bean	(for any row spac-	dressing on each side of the row after plants
DEAIIS	beetle	ing*) -or-	become established but not within 60 days of
	(larvae)	6.7 to 13.3 lbs.	harvest. Do not apply directly on the seed.
	Mites	per acre (30 inch	Do not apply more than once per season. Read
	Thrips	row spacing)	"IMPORTANT" statement under "Recommended
		l zon opaczne,	Applications" for additional information
			before use on this crop.
<del></del>		<del> </del>	Transplant Seed Beds: Apply granules evenly
	Aphids		over bed area at the rate of 6.7 pounds per
Brussels	Flea beetles		acre. Work into the top 2- to 3-tuches of
Sprouts	Leafhoppers	{	soil and seed beds in normal manner. Areades
	Mites		ternative seed bed treatment may be made by
	Thrips	7.4 ounces per	broadcasting the granules evenly over the
		1000 feet of row	plants after emergence and watering thorough-
		(for any row spac-	ly. Do not apply more than one Seed bed';''.
		ing*) -or-	treatment. Field Applications: Place the
		6.7 pounds per	granules in a band on each side of the seed
Cauli-	Aphids	acre (36 inch row	furrow or transplanted row at planting and
tlower	Flea beetles	spacing)	where necessary as a side-dressing after
	Leafhoppers		plants become established. Do not apply,',,'
			directly on the seed. Do not apply more
			than two field applications per beason, nor
			within 30 days of harvest for Brussels
		}	sprouts, or 40 days of harvest for cauli-
			flower. Allow a minimum of 21 days between
			applications.

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CROP	INSECT	DOSAGE DI-SYSTON 15% Granular	REMARKS
CROP	INSECT	13% Granular	REMARKS
VEGETABLE	(Continued)		Transplant Seed Beds: Apply granules evenly over bed area at the rate of 6.7 pounds per
Broccoli	Aphids Flea beetles Leafhoppers	7.4 ounces per 1000 feet of row	acre. Work into the top 2- to 3-inches of soil and seed beds in normal manner. An alternative seed bed treatment may be made by broadcasting the granules evenly over the plants after emergence and watering thorough-
Cabbage	Aphids Flea beetles	(for any row spac- ing*) -or- 6.? pounds per (36 inch row spac- ing)  11.3 ounces per 1000 feet of row (for any row spac- ing*)	ly. Do not apply more than one seed bed treatment.  Field Applications: Place the granules as a band on each side of the seed furrow or transplanted row at planting or as a side-
	Root aphid		dressing after plants become established. Do not apply directly on the seed. Do not apply more than one field application per season. Do not use within 14 days of harvest for broccoli or 42 days of harvest for cabbage.
Lettuce	Aphids Leafhoppers Mites Thrips	4 to 8 ounces per 1000 feet of row (for any row spacing*) -or-6.7 to 13.3 lbs. per acre (20 inch row spacing)	Spring or Summer Seeded Lettuce: Use the higher rate on heavy organic soils. Place the granules in a band on each side of the row at seeding time only. Do not apply directly on the seed. To not apply to transplanted lettuce.  Fall or Winter Seeded Lettuce: Apply as a side-dressing at thinning time. Do not apply within 60 days of harvest. Read "IMPORTANT" statement under "Recommended Applications" for additional information before use on this crop.
Peas	Aphids Leafhoppers	6.7 to 16.7 pounds per acre	Apply by drilling or broadcasting at planting time, or as a 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 within 65 days of treatment.
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## RECOMMENDED APPLICATIONS (Continued)

		DOSAGE DI-SYSTON	
CROP	INSECT	15% Granular	REMARKS
VEGETABLI	ES (Continued)		
	Aphids Flea beetles (except	15 to 23 ounces per 1000 feet of row (for any row spacing*) -or- 13.5 to 20.5 pounds per acre (38 inch row spac- ing)	ROW TREATMENTS  Place the granules in the seed furrow or in a band on each side of the seed furrow at planting. An additional application may also be made as a side-dressing after plants become established. Do not make more than two applications per season nor apply within 75 days of harvest. Higher rate to be used in organic soils. See NOTE below for "foliar applications".
Potatoes	tuber flea beetles) Leafhoppers Potato psyllid Southern potato wireworm Colorado potato beetle (early season	20 to 26.7 pounds per acre	BROADCAST APPLICATION  Apply specified dosage per acre as a pre- plant broadcast application. Work granule into soil to a depth of 2 to 3 inches usin a disc or other suitable equipment. Plant crop in usual manner. A post emergence side-dress may also be made at rates of 15 to 23 ounces per 1000 feet of row (for any row spacing*) after the plants become es- tablished. Do not make more than two appl cations per season, nor apply within 75 da of harvest. See NOTE below for "foliar applications".
	reduction)		catious of DI-SYSTON 8 may be made in
			lanting soil treatment. Refer to
<del></del>		label for DI-SYSTON	18.
Spinach	Aphids Leafhoppers Mites	4 ounces per 1000 feet of row (for any row spacing*) -or- 6.7 pounds	Place the granules in a band on each side of the seed furrow at planting time only. Do not apply directly on the seed.
	Thrips	per acre (20 inch row spacing)	

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		DOSAGE DI-SYSTON	1	
CROP	INSECT	15% Granular	REMARKS	
VEGETABLE	ES (Continued)		Transplant Seed Beds: Apply granules evenly	
	1	1	over bed area at the rate of 20 pounds per	
		1	acre. Work into the top 2- to 3-inches of	
	1	<b>\</b>	soil and seed beds in normal manner. An al-	
			ternative seed bed treatment may be made by	
	Aphids	8 to 23.4 ounces	broadcasting the granules evenly over the	
	Flea beetles	per 1000 feet of	plants after emergence and watering thor-	
<b>.</b>	Leafhoppers	row (for any row	oughly. Do not apply more than one seed bed	
Tomatoes	Leaf miners	spacing*) -or-	treatment.	
	Mites	6.7 to 20 pounds	Field Applications: Apply specified dosage	
	Colorado	per acre (38 inch	in a band on each side of the seed furrow	
	potato	row spacing)	or transplanted row at planting time and	
	beetle		where necessary as a side-dressing after	
	(early season		plants become established. Do not apply di-	
	reduction)		rectly on the seed. Where two field applications are required, use only 8 to 15.5 ozs.	
	reduction)		per 1000 ft. of row, or 6.7 to 13.3 lbs. per	(
			acre, allow a minimum of 21 days between ap-	•
		ļ	plications. Do not apply within 30 days of	
			harvest. (NOTE: Florida Only - Rates up to	
		1	73.5 ozs. per 1000 feet of row, with a 72-	
	1		inch row spacing may be applied to highly	
			alkaline soils in a band on each side of	
			the seed furrow or transplanted row at plant-	ı
			ing time only; or where 2 field applications	Ĺ
		į	are required, up to 36.7 ozs. per 1000 ft.	
			or row, with a 72-inch row spacing at plant-	
	j		ing time, and up to 36.7 ozs. per 1000 ft. of	
			row as a side-dressing after plants become	
			established. Do not apply within 30 days	
			of harvest.) Read "IMPORTANT" statement under	
			"Recommended Applications" for additional in-	
			formation before use on this crop.	1
ORNAMENT/	LS		Apply in a band on each side of the seed fur-	C
	1	1	row or as a band over the row. Work into	
	Aphids		soil and water thoroughly. For treatment of	
	Lace bug	10.7 ounces per	Easter lilies and gladiolus, apply the speci-	
Flowers	Leafhoppers	150 to 300 feet	fied dosage in the furrow over the bulbs after	
(Note 1)	Mites	of row	they are set but before covering with soil.	
	Thrips		Do not make in-furrow applications to garden	
	Whiteflies		lily bulbs. The higher dosage is recommended	
	1	<u> </u>	for heavy organic or muck soils.	
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#### RECOMMENDED APPLICATIONS (Continued)

CROR	INSECT	DOSAGE DI-SYSTON	DEMARKS
CROP	<u> </u>	15% Granular	REMARKS
Shrubs Trees Forest Plant- ings (Note 1)	Aphids Birch leaf miner Camellia scale Elm leaf beetle European elm scale Holly leaf miner Lace bug Leafhoppers Mimosa web- worm Mites Pine tip moth Soft scale (Coccus hesperidium) Tea scale Thrips Whiteflies	2.5 to ?7 ounces per tree or 2.5 ounces 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 or by dipping seedling in a puddling clay slurry made up of 1 part by weight of DI-SYSTON 15% Granular in 6 to 14 parts by weight of clay.

Note 1: For use by commercial growers or professional applicators only.

\*ON ROW CROPS WHERE ROW SPACING IS EXTREMELY NARROW, DO NOT PLACE TREATED ZONES (BAND OR FURROW) CLOSER TOGETHER THAN 6 INCHES.

#### RESTRICTIONS

Not for home garden use. In commercial topping of flowers by hand, clean gloves should be worn. 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.

#### RE-ENTR' STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until dusts have settled. Letause ceftain states may require more restrictive reentry intervals for various crops treated, with this product, consult your State Department of Agriculture for further information.

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(The following may appear on supplemental labeling accompanying the product)
Written or oral warnings must be given to workers who are expected to be in a treated area of in an area about to be treated with this product. Oral warnings should include those statements found under the label heading "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: DANGER, area treated with DI-SYSTON 15% Granular on (date of application). Do not enter without appropriate protective clothing until dusts have settled. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, vomiting should be induced. (See Precautionary Statements on label).

#### STORAGE AND DISPOSAL

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

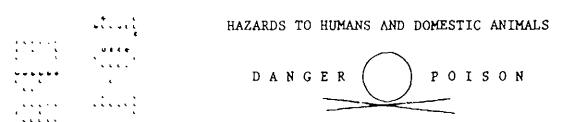
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest 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 Mobay Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Mobay Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

#### PRECAUTIONARY STATEMENTS



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. Wear protective clothing and control or ratural rubber gloves. If cotton gloves are used, they must be laundered or discanded siter each day's use. Do not wear the same gloves for other work. Rubber gloves should be washed with soap and water after each use.

When using DI-SYSTON 15% Granular insecticide in enclosed areas, wear a mask or respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.

Do not contaminate feed or food. Keep out of reach of children. Keep all unprotected persons out of the operating area or vicinity. Wash hands, arms, and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

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

#### STATEMENTS OF PRACTICAL TREATMENT

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. If eyes are contaminated, wash with flowing water for at least 15 minutes.

#### TO PHYSICIAN:

1

ANCIDOTE - Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered 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 product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

DI-SYSTON is a Reg. TM of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen.

BEST AVAILABLE COPY

14 NOV 1984

G. E. Brussell Mobay Chemical Corp. Agriculture Chemicals Div. P.O. Box 4913 Kansas City, MO 64120 17 5

Dear Mr. Brussell:

Subj: Amendment - Add More Restrictive Grazing Restriction DI-SYSTON 15% Granular EPA Reg. No. 3125-172
Your Application Dated October 12, 1984

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

- l. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Submit five (5) copies of your final printed labeling before your release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling in enclosed for your records.

Sincerely yours,

George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Registration Division (TS-767C)

CONCURRENCES								
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* HAT ACKON								
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+ 1 20-1 (12-70)		<del></del>	<u> </u>		OFFICIAL FILE COP'			

BLD18

Base Reg. (5090)

U.S. LABEL

Reason to Issue: To add grazing restrictions on alfalfa, peanuts, rice, sorghum, wheat & pecans.

Date of Draft: 10/5/84 (B)
Supersedes Draft Dated: 9/30/83

EPA Reg. No. 3125-172-AA

®DI-SYSTON

15% GRANULAR

SYSTEMIC INSECTICIDE

FOR USE BY COMMERCIAL GROWERS OR PROFESSIONAL APPLICATORS
NOT FOR HOME GARDEN USE

FOR EFFECTIVE SYSTEMIC CROP
PROTECTION

NET WEIGHT

{(

((

POUNDS

DANGER POISON

ACTIVE INGREDIENT:

0,0-Diethyl S- 2-(ethylthio)ethyl phosphorodithioate .....

KEEP OUT OF REACH OF CHILDREN (See Back Panel for Statements of Practical Treatment and Other Precautionary Statements)

EPA Reg. No. 3125-172-AA

STOP - READ THE LABEL BEFORE USE

**PELIGRO** 

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.) ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 1 4 1984

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

MOBAY CHEMICAL CORPORATION
AGRICULTURAL CHEMICALS DIVISION
Box 4913, Kansas City, Missouri 64120

Note: Underlined letters in chemical nomenclature should be italicized when printed, not underlined.

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#### DI-SYSTON 15% Granular

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with 16.3 labeling.

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

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. MOBAY 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 MOBAY AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

DI-SYSTOM 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 the 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. Mixing the granules into top soil and watering will accelerate entry into the plant, as the chemical will leach into the root zone and be taken up by the root system.

#### RECOMMENDED APPLICATIONS

IMPORTANT: When used on cotton, sugar beets, tomatoes, 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 DISYSTON.

	INCOM	DOSAGE DI-SYSTON	77474
CROP	INSECT	15% Granular	REMARKS
FIELD CROPS			Apply only one broadcast treatment but
416-16-	Anhedda	6.7 - 200-da - 200	not within 28 days of grazing or
Alfalfa	Aphids	6.7 pounds per	cutting for forage. Make only one
	Mites	acre	application per crop season.
			Apply by broadcast treatment as
Clover	Aphids	6.7 pounds per	needed but not within 7 days of har-
	Mites	acre	vest or grazing. Allow a minimum of
	, 		28 days between applications.
	·		Apply by drilling or broadcast at
1		1	planting time, or as a broadcast
1			after emergence. Do not apply more
battley	Aphids	6.7 pounds per	than twice per season nor within 60
Cats	Mites	acre	
*,			minimum of 21 days between applica-
ł		1	tions. Do not graze or cut for
<b>f</b>			forage within 30 days of treatment.

CROP	INSECT	DOSAGE DI-SYSTON	DEMARKS
	OPS (Continued)	15% Granular	REMARKS Corn Rootworms: For control of rootworms,
TIMED ON	(continued)		place the granules in a 4- to 6-inch band
	Rootworms	8 ounces per 1000	directly behind the planter shoe in front
	Aphids	feet of row (for	of the press wheel. Do not place granules
Corn	Leafhoppers	any row spacing*)	in direct contact with the seed. A second
	Mites	or	application of granules may be applied to
	Thrips	6.7 pounds per	the soil as a side-dress treatment later in
		acre (40 inch row	the season.
		spacing)	Aphids, Mites, Thrips, and Leafhoppers:
			For control of these insects apply granules
		NOTE: Do not	to the soil as a side-dress treatment or
		apply to corn more	to the foliage by broadcasting into the
		than twice per	whorl. Do not apply DI-SYSTON 15% Granular
		season regardless	within 40 days of harvesting for food, feed,
		of the method of	or ensilage.
<del></del>		application.	At Planting: Place the granules in the
			seed furrow or in a band on each side of
			the furrow.
			RATE CHART FOR PLANTING TIME
			APPLICATION
			Heavy Soils Medium Soils Light Soils
		5 to 8 ounces per	8 oz. 15% 6.6 oz. 15% 5 oz. 15% Gran.
		1000 feet of row	Gran./1000 Gran./1000 1000 ft. of row
_	Aphids	(for any row	ft. of row ft. of row 4 lbs. 15%
Cotton	Mites	spacing*)	6.7 lbs. 15% 5.3 lbs. 15% Gran./acre
	Thrips	or / to 6 7	Gran./acre. Gran./acre.
		4 to 6.7 pounds per acre (40 inch	Post-Plant: (Irrigated Cotton Only) If an additional treatment is necessary make
		row spacing)	one side-dress application or a single
		tow spacing)	broadcast application over the foliage.
			Rates up to 13.3 pounds per acre can be
			applied to first squaring cotton (90 days
			before harvest) and rates up to 6.7 pounds
			per acre can be applied to within 28 days
			of harvest. Do not apply more than twice
			per season. Allow a minimum of 21 days
			between applications. Read "IMPORTANT"
		ļ	statement under "Recommended Applications"
			for additional information before use on
	1	2 5 ** 2 2	this crop.
		2.5 to 3.3 ounces per 1000 feet of	HILL DROPPED COTTON: Apply specified dosage
		row (for any row	with the seed at planting. Use the lower 'rate where hill spacing is greater than 14'
		spacing*) -or-	inches apart or where applications are made
		2 to 2.7 pounds	to light, sandy soils. Read "IMPORTANT"
	1	per acre (40-inch	statement under "Recommended Applications"
	}	row spacing)	for additional information before use on ,
	3	• •	this crop.

		DOSAGE DI-SYSTON	
CROP	INSECT	15% Granular	REMARKS
FIELD CRO	OPS (Continued)		Uniformly spread the granules in a 6 inch
			square area at the base of each plant. For
			standard 7 ft. by 7 ft. hopyard spacing,
Hops	Aphids	13.3 to 26.7 pounds	
	Mites	per acre	(2 level teaspoonfuls) to 0.48 oz. (4 level
		(See Remarks)	teaspoonfuls) per plant. Apply in mid-to
	1		late June, just prior to hilling. Hilling
	ļ		operation should cover granules with soil.
			Irrigate as normal crop culture requires.
	<del> </del>		Do not graze or feed crop refuse.
	1	7.4 to 14.7 ozs.	Place the granules in a band on each side
	Aphids	per 1000 feet of	of the seed furrow at planting, or as a
<b>n</b>	Leafhoppers	row (for any row	side-dressing after plants are established.
Peanuts	Mites	spacing*) -or-	Do not apply directly on the seed. Where
	Thrips	6.7 to 13.3 lbs.	necessary, granules may be applied in a
		per acre (36 inch	band over the row or as a side-dressing
	<del></del>	row spacing)	at pegging time. Do not feed treated vines.  Apply as a broadcast application at plant-
Rice	Lanfharmara	13.3 lbs. per acre	ing or prior to flooding. Do not apply
VICE	Leafhoppers	l 13.3 105. per acre	more than twice per season nor within 100
			days of harvest. Do not use straw for forage
			fodder, or bedding purposes.
<del></del>	<del></del>	6 to 8 ozs. per	APPLICATION AT PLANTING: IN-FURROW
	}	1000 ft. of row	Place the granules in the seed furrow
	1	(for any row	approximately 1/2 inch above the seed
		spacing*) -or-	at planting. Do not apply directly on
	}	5 to 6.7 pounds	the seed. See "NOTE" below.
	Ì	per acre (40 inch	
Sorghum	Aphids	row spacing)	
Ū	(Greenbugs)		APPLICATION AT PLANTING: BAND
	(See "NOTE"	8 ozs. per 1000	Place the granules in a 4 to 6 inch band
	below)	ft. of row (for	directly behind the planter shoe in front
		any row spacing*)	of the press wheel. Do not apply direct-
	1	or	ly on the seed. See "NOTE" below.
		6.7 pounds per	POST-PLANTING APPLICATION: WHORL
		acre (40 inch	Apply specified dosage by broadcasting
		row spacing)	into the whorl. Do not apply more than
			3 times per season nor within 30 days of
	•		harvest of grain or 45 days of harvest
		 	for forage or fodder. See "NOTE" below.
,	Transfer of	1 <del></del>	nting broadcast applications into the
•			ollowing an at-planting application. (2)
* * * . *	01.011.7		istance in certain areas, DI-SYSTON used
	<b>1</b>	1	de satisfactory control. Consult your
	A STEEL	<u> </u>	advisor or Extension Service for recommen-
<u> </u>		dations.	
·-	Thrips		Place the granules in a 4 inch band over
* < # ` * * *	(except		the seed furrow behind the planter shoe
G - 1	flower	6.7 pounds per	and in front of the press wheel or in a
Soybeans	thrips)	acre (36 inch row	band on each side of the seed furrow at
	Mexican bean	spacing)	planting time. Do not apply directly on
	beetle		the seed.

	RECOMMENDED APPLICATIONS (Continued)				
		DOSAGE DI-SYSTON			
CROP	INSECT	15% Granular	REMARKS		
FIELD CR	OPS (Continued)		Place the granules in the seed furrow 2		
	{	6 ounces per 1000	inches under the seed or in a band on each		
		feet of row (for	side of the seed furrow at planting; or		
Sugar	Aphids	any row spacing*)	apply to foliage and crown after emergence.		
Beets	Leafhoppers	or	Do not apply directly on the seed. Do not		
	Mites	6.7 lbs. per acre	apply more than 3 times per season nor with-		
		(30 inch row	in 30 days of harvest. Allow a minimum of		
		spacing)	21 days between applications. Read "IMPOR-		
		]	TANT" statement under "Recommended Applica-		
	]	)	tions" for additional information before		
	<u> </u>		use on this crop.		
			Apply in a 4 to 6 inch band directly behind		
		4.5 ozs. per 1000	the planter shoe in front of the press wheel.		
Sugar	Root maggot	feet of row (for	The granules should be placed approximately		
Beets		any row spacing*)	1 inch above the seed. Do not allow granules		
(North		or	to come into direct contact with the seed.		
Dakota	,	6.7 lbs. per acre	Read "IMPORTANT" statement under "Recommended		
&	,	(22 inch row	Applications" for additional information		
Minnes	ota	spacing)	before use on this crop.		
Only)	<u> </u>				
		Transplant Beds:	Apply evenly over bed area. Work the gran-		
		100	ules into the top 2- to 3-inches of soil		
	ļ	1 ounce per 100	and seed beds in normal manner. An alter-		
		square feet of	native treatment may be made by broadcasting		
	ļ	bed	the granules evenly over the plants after		
	1		emergence and watering thoroughly. Do not		
Tabaaaa	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		make more than one application to transplant beds.		
Tobacco	Aphids Flea beetles	Field Application:	Apply in a 6- to 12-inch band over the row		
	Trea neerles	20 to 40 ounces	or as a broadcast treatment immediately		
	•	per 1000 feet of	before transplanting. Incorporate the gran-		
	1	row (for any row	ules by working them into the top 2 to 3		
		spacing*) -or-	inches of soil. Plant crop in the usual way.		
		13.3 to 26.7 lbs.	Do not make more than one field application		
	ł	per acre (broad-	per crop season regardless of DI-SYSTON for-		
		cast or with 48	mulation used.		
		inch row spacing)	morecron asea.		
	Southern	13.3 to 26.7 lbs.	When applied as described for FIELD APPLICA-		
	Potato	per acre	TION above, DI-SYSTON 15% Granular will aid		
	wireworm		in control of this wireworm.		
		<u> </u>	IN COMPLETE OF THIS WITEWORK, COURT		

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		DOSAGE DI-SYSTON	_
CROP	INSECT	15% Granular	REMARKS
Wheat (Fall)	PS (Continued) Hessian fly Aphids (Greenbugs) (Oat bird cherry) Grasshoppers	6.7 lbs. per acre or 1.7 oz/1000 ft of row (see chart below)	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.  NOTE: Due to greenbug resistance in certain areas, DI-SYSTON used alone may not provide satisfactory control. Consult your local agricultural advisor or Extension Service for recommendations.
SEED FIEL	D CROPS		
Soybeans	Aphids Leafhoppers Mites Thrips	8 ounces per 1000 feet of row (for any row spacing*) or 6.7 pounds per acre (40 inch row spacing)	Place the granules in a band on each side of the seed furrow at planting or as a side- dressing after plants are established. Do not pasture or use treated crop for feed, food, or forage. Do not apply directly to seed.
FRUIT			Distribute granules uniformly under the tree
Coffee (Puerto Rico Only)	Leaf miner	2 to 4 grams per foot of tree height	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.
Pineapple	Mealybug	16.7 lbs. per acre	Apply as a broadcast application, or topically to base leaf feeding after plants have develored root systems. Repeat as necessary but not more than twice per crop period nor within 60 days of harvest. When two treatments are used, do not ensile foliage less than one year after last application.
NON-BEARI	<del></del>		
Fruit Trees apples, apricots cherries crab- apples, peaches, pears, plums, & prunes	Thrips Whiteflies	2.5 to 27 ounces per tree or 2.5 ounces 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.

			ATIONS (Continued)
CDOD	INCRET	DOSAGE DISYSTON	DEMARKS
CROP	INSECT	15% Granular	REMARKS
NUN-BEAR	ING FRUIT (Cont:	117 to 34.4 ozs.	
Straw~	Ambido	per 1000 feet of	
berries	Aphids Mites	row (for any row	Apply by side-dressing on each side of the
	- (except	spacing*) -or-	row or by broadcasting over the row as needed
ting	cyclamen	13.3 to 26.7 lbs.	Do not use fruit from treated plants for food
Plants	mite)	per acre (42 inch	purposes.
Only)	mire,	row spacing)	purposes.
Only	+	Tow spacing)	BAND APPLICATION: Apply specified dosage in
Rasp-			a 24-inch band over the row to new or estab-
berries		İ	lished plantings. Work granules 2 to 3
(Nursery	,	1	inches into the soil using a cultivator or
stock	Aphids	53.3 lbs. per acre	other suitable equipment. A second applica-
only)			tion of granules may be applied to the soil
(Northea	ist	1	later in the season. Consult your State
States			Agricultural Experiment Station or Extension
		1	Service for proper timing of applications.
NUTS			Apply by treating 6-foot bands of soil on
			both sides of the trees. The bands should
Pecans			be located under the main drip area of the
(South	Aphids	10 to 20 pounds	trees. Work the granules into the upper 2
Central		per acre	to 3 inches of soil. On irrigated pecans,
& South	<u>.</u>		apply water as soon as possible after treat-
western	ւ	1	ment. Make only 1 application per season.
States)		1	Early spring treatment is recommended. Do
(Note 1)			not harvest nuts within 80 days of treatment.
			Do not graze grass under treated trees.
VEGETABLE	<u>:S</u>		For snap or green Lima beans, place the
	1		granules in a band on each side of the seed
	Aphids	6 to 12 ounces per	
_	Leafhoppers	1000 feet of row	apply as above at planting time or as a side-
Beans	Mexican bean	(for any row spac-	dressing on each side of the row after plants
	beetle	ing*) -or-	become established but not within 60 days of
	(larvae)	6.7 to 13.3 lbs.	harvest. Do not apply directly on the seed.
	Mites	per acre (30 inch	Do not apply more than once per season. Read
	Thrips	row spacing)	"IMPORTANT" statement under "Recommended
			Applications" for additional information
<del></del>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	before use on this crop.
	Anhida		Transplant Seed Beds: Apply granules evenly over bed area at the rate of 6.7 pounds per
Brussels	Aphids Flea beetles		acre. Work into the top 2- to 3-Inches of
Sprouts	Leafhoppers		soil and seed beds in normal manner. Anada
opioucs	Mites		ternative seed bed treatment may be made by
	Thrips	7.4 ounces per	broadcasting the granules evenly over the
		1000 feet of row	plants after emergence and watering thorough-
		(for any row spac-	ly. Do not apply more than one seed bed ';''.
<del></del>		ing*) -or-	treatment. Field Applications: , Place the
		6.7 pounds per	granules in a band on each side of the seed
Cauli-	Aphids	acre (36 inch row	furrow or transplanted row at planting and
flower	Flea beetles	spacing)	where necessary as a side-dressing after
	Leafhoppers		plants become established. Do not apply
			directly on the seed. Do not apply more
			than two field applications per season, nor
			within 30 days of harvest for Brussels
			sprouts, or 40 days of harvest for cauli-
			flower. Allow a minimum of 21 days between
			applications.
	l	<u> </u>	,

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LEST HYAILIBLE CONTESTS

## DI-SYSTON 15% Granular

REMARKS	
Beds: Apply granules of the rate of 6.7 pound:	
acre. Work into the top 2- to 3-inches of soil and seed beds in normal manner. An alternative seed bed treatment may be made by broadcasting the granules evenly over the plants after emergence and watering thorough	An made er the orough
ly more than one seed be ons: Place the granules side of the seed furrow w at planting or as a s:	s as or ide-
plants become established rectly on the seed. Do one field application place within 14 days of bli or 42 days of harvest	not per har-
r Seeded Lettuce: Use theavy organic soils. Pine a band on each side of time only. Do not apply seed. Do not apply to truce.  Seeded Lettuce: Apply a thinning time. Do not farvest. Read "IMPO" "Recommended Application information before use of the seed of th	lace the y as a t appl RTANT"
ng or broadcasting at p. ide-dress on each side of ence. Do not apply more nor within 50 days of be es or hay within 65 days	of the e than harves

## RECOMMENDED APPLICATIONS (Continued)

		DOSAGE DI-SYSTON	
CROP	INSECT	15% Granular	REMARKS
VEGETABLE	S (Continued)		
	Aphids Flea Beetles (except	15 to 23 ounces per 1000 feet of row (for any row spacing*) -or- 13.5 to 20.5 pounds per acre (38 inch row spac- ing)	ROW TREATMENTS  Place the granules in the seed furrow or in a band on each side of the seed furrow at planting. An additional application may also be made as a side-dressing after plants become established. Do not make more than two applications per season nor apply within 75 days of harvest. Higher rate to be used in organic soils. See NOTE below for "foliar applications".
Potatoes	tuber flea beetles) Leafhoppers Potato psyllid Southern potato wireworm Colorado potato beetle (early season	20 to 26.7 pounds per acre	BROADCAST APPLICATION  Apply specified dosage per acre as a preplant broadcast application. Work granules into soil to a depth of 2 to 3 inches using a disc or other suitable equipment. Plant crop in usual manner. A post emergence side-dress may also be made at rates of 15 to 23 ounces per 1000 feet of row (for any row spacing*) after the plants become established. Do not make more than two applications per season, nor apply within 75 days of harvest. See NOTE below for "foliar applications".
	reduction)		cations of DI-SYSTON 8 may be made in lanting soil treatment. Refer to 8.
		4 ounces per 1000	
Spinach	Aphids Leafhoppers Mites	feet of row (for any row spacing*) -or- 6.7 pounds	Place the granules in a band on each side of the seed furrow at planting time only. Do not apply directly on the seed.
_	Thrips	per acre (20 inch row spacing)	

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	DOSAGE DI-SYSTON	
INSECT	15% Granular	REMARKS
Aphids Flea beetles Leafhoppers Leaf miners Mites Colorado potato beetle (early season reduction)	8 to 23.4 ounces per 1000 feet of row (for any row spacing*) -or- 6.7 to 20 pounds per acre (38 inch row spacing)	Transplant Seed Beds: Apply granules evenly over bed area at the rate of 20 pounds per acre. Work into the top 2- to 3-inches of soil and seed beds in normal manner. An alternative seed bed treatment may be made by broadcasting the granules evenly over the plants after emergence and watering thoroughly. Do not apply more than one seed bed treatment.  Field Applications: Apply specified dosage in a band on each side of the seed furrow or transplanted row at planting time and where necessary as a side-dressing after plants become established. Do not apply directly on the seed. Where two field applications are required, use only 8 to 15.5 ozs. per 1000 ft. of row, or 6.7 to 13.3 lbs. per acre, allow a minimum of 21 days between applications. Do not apply within 30 days of harvest. (NOTE: Florida Only - Rates up to 73.5 ozs. per 1000 feet of row, with a 72-inch row spacing may be applied to highly alkaline soils in a band on each side of the seed furrow or transplanted row at planting time only; or where 2 field applications are required, up to 36.7 ozs. per 1000 ft. or row, with a 72-inch row spacing at planting time, and up to 36.7 ozs. per 1000 ft. of row as a side-dressing after plants become established. Do not apply within 30 days of harvest.) Read "IMPORTANT" statement under "Recommended Applications" for additional information before use on this crop.
<u>LS</u>		Apply in a band on each side of the seed fur-
Aphids Lace bug Leafhoppers	10.7 ounces per 150 to 300 feet	row or as a band over the row. Work into soil and water thoroughly. For treatment of Easter lilies and gladiolus, apply the specified dosage in the furrow over the bulbs after
Thrips Whiteflies	OI IOW	they are set but before covering with soil.  Do not make in-furrow applications to garden  lily bulbs. The higher dosage is recommended  for basis areas as reals
	<u> </u>	for heavy organic or muck soils.
	Aphids Flea beetles Leafhoppers Leaf miners Mites Colorado potato beetle (early season reduction)  Aphids Lace bug Leafhoppers Mites Thrips	INSECT 15% Granular  S (Continued)  Aphids Flea beetles Leafhoppers Leaf miners Mites Colorado potato beetle (early season reduction)  Aphids Lace bug Leafhoppers Mites Cincolorado potato beetle (early season reduction)  Aphids Lace bug Leafhoppers Mites Thrips Whiteflies

#### RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE DI-SYSTON 15% Granular	REMARKS
	ALS (Continued)	130 010110121	1.204 12.00
Shrubs Trees Forest Plant- ings (Note 1)	Aphids Birch leaf miner Camellia scale Elm leaf beetle European elm scale Holly leaf	2.5 to 27 ounces per tree or 2.5 ounces 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 or by dipping seedling in a puddling clay slurry made up of 1 part by weight of DI-SYSTON 15% Granular in 6 to 14 parts by weight of clay.

Note 1: For use by commercial growers or professional applicators only.

\*ON ROW CROPS WHERE ROW SPACING IS EXTREMELY NARROW, DO NOT PLACE TREATED ZONES (BAND OR FURROW) CLOSER TOGETHER THAN 6 INCHES.

#### RESTRICTIONS

Not for home garden use. In commercial topping of flowers by hand, clean gloves should be worn. 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.

#### RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until dusts have settled. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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DI-SYSTON 15% Granular

(The following may appear on supplemental labeling accompanying the product)
Written or oral warnings must be given to workers who are expected to be in a treated area of in an area about to be treated with this product. Oral warnings should include those statements found under the label heading "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: DANGER, area treated with DI-SYSTON 15% Granular on (date of application). Do not enter without appropriate protective clothing until dusts have settled. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, vomiting should be induced. (See Precautionary Statements on label).

#### 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 Mobay Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Mobay Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

#### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER POISON

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. Wear protective clothing and control or natural rubber gloves. If cotton gloves are used, they must be laundered or discanded after each day's use. Do not wear the same gloves for other work. Rubber gloves should be washed with soap and water after each use.

When using DI-SYSTON 15% Granular insecticide in enclosed areas, wear a mask or respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11.

Do not contaminate feed or food. Keep out of reach of children. Keep all unprotected persons out of the operating area or vicinity. Wash hands, arms, and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

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

#### STATEMENTS OF PRACTICAL TREATMENT

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. If eyes are contaminated, wash with flowing water for at least 15 minutes.

#### TO PHYSICIAN:

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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 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 product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

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