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SEP 26 1990

320/5383/15  
17/

Mr. John S. Thornton  
Mobay Corporation  
Agricultural Chemicals Division  
P.O. Box 4913  
Kansas City, MO 64120

Dear Mr. Thornton:

Subject: Deletion of Sugarcane and Rotational Crop Statement and  
Addition of Grazing Restriction for Peas and Beans  
DI-SYLFON Liquid Concentrate  
EPA Registration No. 3125-119  
Your Application Dated August 22, 1989

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

1. At the end of the "Beans" and "Peas" remarks paragraphs, the statement should read "Do not feed ~~treated~~ vines or hay to livestock."
2. Under the Re-entry statement, the If In Eyes statement should read "Flush eyes with plenty of water. Call a physician if irritation persists."
3. Move "Aromatic Petroleum Distillate" to a footnote under the Inert Ingredients and add its percentage to that of the Inerts.
4. The common name "Disulfoton" should precede the chemical name in the ingredients statement.
5. Update the Environmental Hazards statement by changing "by cleaning of equipment or disposal of wastes" to "when disposing of equipment washwaters."
6. Delete the crop "Tomatoes" from the product labeling. This crop was not supported in response to the Disulfoton Registration Standard.

Richards

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Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

George T. LaRocca  
Product Manager 15  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

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119-6779.BLD

Base Reg. (6779)

U.S. LABEL

Reason to Issue: To delete use on sugarcane and to add a grazing restriction for peas and beans; revise Precautionary statements in accordance with EPA comments; to delete rotational crop statement.  
EPA Reg. No. 3125-119

Date of Draft: 8/8/89 (M)  
Supersedes Draft Dated: 2/4/87

**RESTRICTED USE PESTICIDE**  
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-SYSTON®**  
LIQUID CONCENTRATE  
SYSTEMIC INSECTICIDE

FORMULATED FOR EFFECTIVE SOIL TREATMENT

Contains 6 lbs. O,O-Diethyl S- 2-(ethylthio)ethyl phosphorodithioate per gallon. 27%

NET CONTENTS      GALLONS

KEEP OUT OF REACH OF CHILDREN

DANGER  POISON

(See Rear Panel for Statements of Practical Treatment and Other Precautionary Statements)

ACCEPTED  
with COMMENTS  
in EPA Label dated:  
2 6 1989

ACTIVE INGREDIENTS:  
*Disulfoton* O,O-Diethyl S- 2-(ethylthio)ethyl phosphorodithioate ..... 65%  
Aromatic Petroleum Distillate .... 27%  
INERT INGREDIENTS: ..... 8% 35%  
→ \* contains Aromatic Petroleum Distillate 100%

EPA Reg. No. 3125-119

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.)

STOP - READ THE LABEL BEFORE USE

MOBAY CORPORATION  
A Bayer USA INC. COMPANY  
AGRICULTURAL CHEMICALS DIVISION  
Box 4913, Kansas City, Mo. 64120

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

3125-119

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

DI-SYSTON Liquid Concentrate

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DIRECTIONS FOR USE

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

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using DI-SYSTON Liquid Concentrate 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. 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 systemic insecticide enters the plant by absorption through the roots. The insecticide placed near the roots is translocated to all parts of the plant and kills sucking insects feeding on the plant.

The formulation of DI-SYSTON Liquid Concentrate is highly versatile and offers many forms of application. It can be sprayed or injected into the furrow at planting time or soil injected as a side-dress treatment at planting time or after plants become established. Applications may be made in water emulsion, with liquid fertilizer, or undiluted in specially designed equipment for low volume soil injection but never on crops for which less than 1 quart liquid concentrate per acre is the recommended dosage. When mixing with certain liquid high phosphorous fertilizers, the use of COMPEX<sup>R</sup> compatibility agent or other equivalent agents at the rate of 1 quart per 100 gal. of mixture may be needed to assure proper mixing. Time and method of application and limits for use are discussed in detail for each specific crop under "Remarks" below.

RECOMMENDED APPLICATIONS

**IMPORTANT:** When used on cotton, tomatoes, beans, or lettuce at the maximum recommended rates under adverse conditions such as extremely cool or wet or extremely dry weather, DI-SYSTON 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.

DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS  
(Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
FIELD CROPS			
Barley	Aphids Mites	1.3 pints per acre	Apply as a soil injection in a water emulsion or with liquid fertilizer at planting time. Do not apply within 60 days of harvest. Do not graze or cut for forage within 30 days of treatment.
Barley (Foliar Application Spring or Fall)	Aphids (Including Greenbugs)  (See NOTE in Remarks)	2/3 to 1-1/3 pts. per acre	<p>For application by aircraft or ground equipment: Apply specified dosage per acre in sufficient water to obtain thorough coverage but not less than 1 gallon total volume per acre. Use the lower rates on plants up to tillering (stooling). Higher rates should be used after plants begin to tiller.</p> <p>For application in liquid fertilizer: Mix 2/3 to 1-1/3 pints of DI-SYSTON Liquid Concentrate in the amount of liquid fertilizer to be applied per acre. Apply this mixture as a top dressing with suitable ground equipment. Foliar applications may be made following an at-planting application, however, regardless of method of application do not apply more than a total of 2-2/3 pints per acre of DI-SYSTON Liquid Concentrate per crop season. Do not make any applications within 30 days of grain harvest.</p>
			<p style="text-align: center;">NOTE</p> <p>(1) Do not graze treated fields after any application of DI-SYSTON LC. (2) 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.</p>

DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS  
(Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
Corn Field Popcorn	Aphids Leafhoppers Mites Thrips	1.6 fl. ounces per 1000 feet of row for any row spacing*. (for 40 inch row spacing use 1.3 pints per acre)	<p><u>TREATMENT AT PLANTING TIME:</u> As a water emulsion, spray in 4- to 6-inch band directly behind the planter shoe in front of the press wheel or apply with liquid fertilizer in split bands on each side of the corn row. Do not apply directly to the seed. Do not forage or cut treated corn for food, feed or ensilage within 28 days of treatment.</p> <p><u>POST-PLANT SIDE-DRESS TREATMENT:</u> An alternative treatment for early season control of aphids, leafhoppers, mites and thrips, may be made in a water emulsion or with liquid fertilizer as a soil injection on each side of the furrow after emergence. Do not forage or cut treated corn for food, feed, or ensilage within 28 days of treatment.</p>
	Aphids Mites	<p>2/3 to 1-1/3 pints</p> <p>Note: Apply only one soil treatment and one foliar treatment per crop season.</p>	<p><u>FOLIAR TREATMENT:</u> Apply specified dosage per acre as a foliar spray in sufficient water for thorough coverage but not less than 1 gallon total volume per acre. Do not forage or cut treated corn for food, feed, or ensilage within 28 days of treatment.</p>

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DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS  
(Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS						
FIELD CROPS (Continued)			<p>Preplant: As a preplant soil incorporated treatment, DI-SYSTON LC may be applied in approximately a 16 inch band as a water emulsion either alone or with a pre-emergent herbicide. Request Chemagro Bulletin No. DS 6720 for specific recommendations on a herbicide to be used with DI-SYSTON.</p> <p>Planting: Apply as a water emulsion or with liquid fertilizer. Spray in the furrow on either side of the seed or soil inject on each side of the furrow. Do not apply directly on the seed.</p> <p>RATE CHART FOR PREPLANT OR PLANTING TIME APPLICATION</p> <table border="1"> <thead> <tr> <th>Heavy Soil</th> <th>Medium Soil</th> <th>Light Soil</th> </tr> </thead> <tbody> <tr> <td>1.6 fl. ozs. LC/1000 ft. of row or 1 1/3 pts. LC/acre</td> <td>1.3 fl. ozs. LC/1000 ft. of row or 1 pt. LC/ acre</td> <td>1 fl. oz. LC/1000 ft. of row or 3/4 pt. LC/ acre</td> </tr> </tbody> </table> <p>Post-Plant: If an additional treatment is needed, apply in a water emulsion or with liquid fertilizer as a soil injection on each side of the row. A single post-plant application at rates up to 2.6 pints of LC/acre may be applied up to first squaring (90 days before harvest) or a single post-plant application at rates up to 1.3 pints of LC/acre may be applied up to 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.</p>	Heavy Soil	Medium Soil	Light Soil	1.6 fl. ozs. LC/1000 ft. of row or 1 1/3 pts. LC/acre	1.3 fl. ozs. LC/1000 ft. of row or 1 pt. LC/ acre	1 fl. oz. LC/1000 ft. of row or 3/4 pt. LC/ acre
Heavy Soil	Medium Soil	Light Soil							
1.6 fl. ozs. LC/1000 ft. of row or 1 1/3 pts. LC/acre	1.3 fl. ozs. LC/1000 ft. of row or 1 pt. LC/ acre	1 fl. oz. LC/1000 ft. of row or 3/4 pt. LC/ acre							
Cotton	Aphids Mites Thrips	1 to 1.6 fluid ounces per 1000 feet of row (for any row spacing*) or .75 to 1.3 pints per acre (40 inch row spacing)							
	Aphids Thrips	1/4 to 3/4 pints Note: If foliar applications are made do not apply soil treatments within the same crop year.	FOLIAR Prior to Bloom: Apply specified dosage per acre as a foliar spray, using aircraft or ground equipment, in sufficient water for thorough coverage but not less than 1 gallon total volume per acre. Repeat as necessary but do not apply more than 3 times per season with the last application no later than bloom.						

DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS  
(Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
FIELD CROPS (Continued)			
Sorghum	Aphids (Greenbugs) See NOTE below)	1.2 to 1.6 fl. oz. per 1000 feet of row (for any row spacing*) (for 40-inch row spacing use 1 to 1-1/3 pints per acre)	<u>AT PLANTING APPLICATION: FURROW</u> Apply as a water emulsion or in liquid fertilizer in the seed furrow approximately 1/2 inch above the seed. Do not apply directly on the seed.
		1.6 fl. oz. per 1000 feet of row (for any row spacing*) (for 40-inch row spacing use 1-1/3 pints per acre)	<u>AT PLANTING APPLICATION: BAND</u> Apply as a water emulsion or in liquid fertilizer in a 4 to 6 inch band directly behind the planter shoe in front of the press wheel. Do not apply di- rectly on the seed.
		<u>NOTICE:</u> The following side-dress and/or foliar applications may be made in addition to granular or liquid at planting applications. A total of 5 applications may be made to a single sorghum crop (2 soil applications, granular or liquid, plus 3 foliar applications of rates 2/3 pints or less/acre).	
		1.6 fl. oz. per 1000 feet of row (for any row spacing*) (for 40-inch row spacing use 1-1/3 pints per acre).	<u>POST PLANTING APPLICATION: SIDE- DRESS</u> Apply as a water emulsion or with liquid fertilizer injected into the row on both sides of the furrow at any time up to boot stage.



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DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS											
Sorghum	Aphids (Greenbugs) (See NOTE below)	1/3 to 2/3 pints per acre	<p>POST-PLANTING APPLICATION: FOLIAR SPRAY - A Maximum of 3 Foliar Applications May Be Made of Rates 2/3 Pints or Less/Acre. Apply specified dosage per acre in suffi- cient water to obtain thorough coverage. For aerial application use not less than 1 gallon of water per acre. Use not less than 5 gallons of water per acre with ground equipment. For Midge: Make one application when 50% of the seed heads have emerged from the boot. Make a second application 3 to 5 days later.</p>											
	Sorghum Midge (Arkansas, Louisiana, Oklahoma, Texas)		<p>DAYS FROM LAST APPLICATION TO HARVEST FOR FOLIAR RATES OF 1/3 to 2/3 PINTS/ACRE</p> <table border="1" data-bbox="900 941 1665 1185"> <thead> <tr> <th data-bbox="900 941 1210 1010">APPLICATION SCHEDULE</th> <th data-bbox="1219 941 1410 1010">FOR GRAIN</th> <th data-bbox="1419 941 1665 1010">FOR FORAGE OR FODDER</th> </tr> </thead> <tbody> <tr> <td data-bbox="900 1010 1210 1080">Any soil plus any foliar</td> <td data-bbox="1219 1010 1410 1080">34</td> <td data-bbox="1419 1010 1665 1080">34</td> </tr> <tr> <td data-bbox="900 1103 1210 1150">1 or 2 foliars</td> <td data-bbox="1219 1103 1410 1150">7</td> <td data-bbox="1419 1103 1665 1150">28</td> </tr> <tr> <td data-bbox="900 1150 1210 1185">3 foliars</td> <td data-bbox="1219 1150 1410 1185">34</td> <td data-bbox="1419 1150 1665 1185">34</td> </tr> </tbody> </table>	APPLICATION SCHEDULE	FOR GRAIN	FOR FORAGE OR FODDER	Any soil plus any foliar	34	34	1 or 2 foliars	7	28	3 foliars	34
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Any soil plus any foliar	34	34												
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3 foliars	34	34												
Banks grass mites (in Texas, excluding Trans-Pecos area, and in Oklahoma)	2/3 to 1-1/3 pints per acre	<p>APPLICATION SCHEDULE FOR GRAIN OR FODDER</p> <table border="1" data-bbox="900 941 1665 1185"> <thead> <tr> <th data-bbox="900 941 1210 1010">APPLICATION SCHEDULE</th> <th data-bbox="1219 941 1410 1010">FOR GRAIN</th> <th data-bbox="1419 941 1665 1010">FOR FORAGE OR FODDER</th> </tr> </thead> <tbody> <tr> <td data-bbox="900 1010 1210 1080">Any soil plus any foliar</td> <td data-bbox="1219 1010 1410 1080">34</td> <td data-bbox="1419 1010 1665 1080">34</td> </tr> <tr> <td data-bbox="900 1103 1210 1150">1 or 2 foliars</td> <td data-bbox="1219 1103 1410 1150">7</td> <td data-bbox="1419 1103 1665 1150">28</td> </tr> <tr> <td data-bbox="900 1150 1210 1185">3 foliars</td> <td data-bbox="1219 1150 1410 1185">34</td> <td data-bbox="1419 1150 1665 1185">34</td> </tr> </tbody> </table> <p>For Banks Grass Mites: The 2/3 pint rate may be applied as directed above for aphids. Rates above 2/3 pints per acre may not be applied if any soil applica- tions have been made. If rates above 2/3 pints per acre are used, do not apply more than twice per crop season nor with- in 7 days of harvest of grain or 28 days of use as forage or fodder.</p>	APPLICATION SCHEDULE	FOR GRAIN	FOR FORAGE OR FODDER	Any soil plus any foliar	34	34	1 or 2 foliars	7	28	3 foliars	34	34
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<p>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.</p>														

DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
Tobacco Tobacco (Flue-cured) (Virginia and Georgia)	Flea beetles Aphids	5-1/3 pints (2/3 gallon) per acre	Apply as a water emulsion broadcast spray in sufficient water for thorough coverage. Disk or till the soil to a depth of 2 to 3 inches before setting plants. Do not make more than one field application per crop season regardless of the formulation of DI-SYSTON used.
Wheat (Foliar Application Spring or Fall) (all states west of the Mississippi River, and in Alabama and Tennessee)	Aphids (Greenbugs) Mites (See NOTE in "Remarks")	1/3 to 1 pint per acre	<p>For application by aircraft or ground equipment: Apply specified dosage per acre in sufficient water, to obtain thorough coverage but not less than 1 gallon total volume per acre. Use the lower rates on plants up to tillering (stooling). Higher rates should be used after plants begin to tiller.</p> <p>For application in liquid fertilizer: Mix 1/2 to 1 pint of DI-SYSTON Liquid Concentrate in the amount of liquid fertilizer to be applied per acre. Apply this mixture as a top dressing with suitable ground equipment.</p> <p>Fall Applications: Two applications may be made in the fall. Allow 30 days between applications.</p> <p>Spring Applications: Application at green-up may be made following "fall applications." A second application may be made 30 days following the first spring application. Do not make any applications within 30 days of grain harvest.</p>

NOTE

(1) Do not graze treated fields after any application of DI-SYSTON LC. (2) 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.

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DI-SYSTON Liquid Concentrate

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RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
<b>FIELD CROPS (Cont'd)</b>			
Wheat (Fall)	Hessian fly	1.3 pints per acre	Apply as a soil injection in water emulsion or with liquid fertilizer. at planting time in the fall.
<b>NON-BEARING FRUIT</b>			
Strawberries (Propagating Plants Only)	Aphids Mites (except cyclamen mite)	3.6 to 6.8 fluid ounces per 1000 feet of row (for any row spacing*) or 2.6 to 5.3 pints per acre (42 inch row spacing)	Apply in a water emulsion or with liquid fertilizer as a soil injection on each side of the row as needed. Do not use fruit from treated plants for food purposes.
<b>NUTS</b>			
Pecans (South Cen- tral & South Western States Only)	Aphids	2 to 4 pints per acre	Apply by spraying 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 treated soil to a depth of 2 to 3 inches. On irrigated pecans, apply water as soon as possible after treatment. Make only 1 application per season. Early spring treatment is recommended. Do not harvest nuts within 80 days of treatment. Do not tank mix this product with Phosalone.
Pecans	Aphids	1/3 to 1/2 pint	<u>Foliar Applications:</u> Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 400 gallons of finished spray per acre. Repeat as necessary up to 3 times per season. Do not apply within 30 days of harvest. Do not graze grass under treated trees. Do not tank mix this product with Phosalone.
		1 to 1-1/3 pints	<u>Application by Aircraft:</u> Apply specified dosage per acre in sufficient water to obtain thorough coverage but not less than 5 gallons total volume per acre. Do not apply more than 3 times per season nor within 30 days of harvest. Do not graze grass under treated trees. Do not tank mix this product with Phosalone.

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DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS (Continued)

CROP VEGETABLES	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
Beans	Aphid Leaf-hoppers Mexican bean beetle (larvae) Mites Thrips	1.25 to 2.5 fluid ounces per 1000 feet of row (for any row spacing*) - or - 1.3 to 2.6 pints per acre (30 inch row spacing) (For extremely narrow row spacing, do not exceed the 2.6 pints per acre rate)	For snap or green lima beans, apply in a water emulsion or with liquid fertilizer as a soil injection on each side of the seed furrow at planting time only. For dry beans, apply as above at planting time or inject as a side-dressing on each side of the row after plants become established but not within 60 days of harvest. Do not apply directly on the seed. Do not apply more than once per season. Read "IMPORTANT" statement under "Recommended Applications" for additional information before use on this crop. Do not feed vines or hay.
Brussels Sprouts	Aphids Flea beetles Leafhoppers Mites Thrips	1.5 fluid ounces per 1000 feet of row (for any row spacing*) - or - 1.3 pints per acre (36 inch row spacing)	<u>Transplant Seed Beds:</u> Apply evenly over bed area in a water emulsion as a broadcast spray prior to seeding at the rate of 1.3 pints per acre. Work into the top 2- to 3-inches of soil and plant seed in normal manner.
Cauliflower	Aphids Flea beetles Leafhoppers	1.3 pints per acre (36 inch row spacing)	<u>Field Applications:</u> Apply specified dosage in a water emulsion or with liquid fertilizer as an injection on each side of the seed furrow or transplanted row at planting and where necessary, injected as a side-dressing after plants are established. 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 cauliflower. Allow a minimum of 21 days between applications.

DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
VEGETABLES (Cont'd)			
Broccoli	Aphids Flea beetles Leafhoppers	1.5 fluid ounces per 1000 feet of row (for any row spacing*) - or - 1.3 pints per acre (36 inch row spacing*)	Transplant Seed Beds: Apply evenly over bed area in a water emulsion as a broadcast spray prior to seeding at the rate of 1.3 pints per acre. Work into the top 2-- to 3-inches of soil and plant seed in normal manner.
Cabbage	Aphids Flea beetles	1.3 pints per acre (36 inch row spacing*)	Field Applications: Apply specified dosage in a water emulsion or with liquid fertilizer as an injection on each side of the seed furrow or transplanted row at planting or injected as a side-dressing after plants are 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.
	Root aphids	2.2 fluid ounces per 1000 feet of row (for any row spacing*)	
Lettuce	Aphids Leafhoppers Mites Thrips	fluid ounces per 1000 feet of row (for any row spacing*) or 1.3 to 2.6 pints per acre (20 inch row spacing)	Spring or Summer Seeded Lettuce: Apply in a water emulsion or with liquid fertilizer as an injection on each side of the seed furrow at planting time only. Use the higher rate on heavy organic soils. Do not apply directly on the seed. Do not apply to transplanted lettuce Fall or Winter Seeded Lettuce: Apply specified dosage in a water emulsion or as a soil injected side-dressing with liquid fertilizer 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	1.3 to 3.3 pints per acre	Apply in a water emulsion or with liquid fertilizer as an in-furrow spray or as an injection on each side of the seed furrow at planting or injected as a side-dressing after plants are established. Do not apply more than once per season nor within 50 days of harvest. Do not feed vines or hay.

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DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
Potatoes	VEGETABLES (Cont'd)  Aphids	4 to 5-1/3 pints per acre	<u>SOIL APPLICATION - PRE-PLANT BROADCAST:</u> Apply specified dosage per acre as a preplant broadcast application. Incorporate to a depth of 2 to 3 inches. Plant crop in usual manner. Do not make more than two soil applications of DI-SYSTON per crop season regardless of method of application or formulation used. Do not tank mix this product with Phosalone.
	Aphids Flea beetles (except tuber flea beetles) Leafhoppers Potato psyllid Southern potato wireworm Colorado potato beetle (early season reduction)	3 to 4.6 fl. ozs. per 1000 feet of row for any row spacing*. (for 38 inch row spacing use 2.6 to 4 pints per acre)	<u>SOIL APPLICATION - FURROW:</u> Apply undiluted in specifically designed equipment for low volume soil injection, or apply in a water emulsion, or with liquid fertilizer as an in-furrow spray, or injection on each side of the seed furrow at planting. An additional side-dress application may be made as a water emulsion injection after plants become established. Do not make more than two soil applications of DI-SYSTON per crop season regardless of method of application or formulation used. Do not apply second soil application within 75 days of harvest. Higher rate to be used in organic soils. Do not tank mix this product with Phosalone.
	Green peach aphids	1/2 to 1-1/3 pints per acre	<u>FOLIAR APPLICATIONS:</u> Apply specified dosage per acre in sufficient water to obtain thorough coverage, but not less than 1 gallon total volume per acre. Begin applications when pest first appears. Use the higher rates for heavy infestations. Repeat as necessary, but not more than 3 times per season nor within 30 days of harvest. Do not tank mix this product with Phosalone.
<u>NOTE:</u> Foliar applications may be made following at-planting soil treatment as recommended above or on the label for DI-SYSTON 15% Granular.			

SPRINKLER IRRIGATION APPLICATION TO POTATOES:

For control of green peach aphid, and Colorado potato beetle on potatoes in the States of California, Oregon, Washington, Idaho, and Utah apply DI-SYSTON Liquid Concentrate at the rate of 1-1/3 to 4 pints per acre through sprinkler irrigation systems. Use only in solid set or center pivot systems equipped with automatic shutoff devices and valves to prevent backflow into the water source. Do not apply when wind velocities exceed 10 mph.

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DI-SYSTON Liquid Concentrate

RECOMMENDED APPLICATIONS (Continued)

Up to 3 applications of the 1-1/3 pint per acre rate may be made but not within 30 days of harvest, or, only 1 application of rates above 1-1/3 pint per acre may be made but not within 60 days of harvest. Applications may be made following at-planting soil treatments as recommended on this label or on the label for DI-SYSTON 15% Granular. Do not tank mix this product with Phosalone.

Solid Set Systems: Apply specified dosage for the entire length of the irrigation period or for a 30 to 60 minute period at the end of a regular irrigation set or as a 30 to 60 minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the lines to mark the end of the application period. See Note.

Circular Systems: Inject the specified dosage per acre continuously for one complete revolution of the system. See NOTE.

Sample Calculations:

Center Pivot Calibrations:

- (1) To apply DI-SYSTON Liquid Concentrate at the rate of 1-1/3 pints per acre to 130 acres you will need 130 x 1-1/3 pints or 173 1/3 pints (21 2/3 gallons) of product.
- (2) If your injection pump delivers 15 gallons per hour and your system takes 20 hours for 1 revolution, you will need to mix enough water with the DI-SYSTON Liquid Concentrate to obtain 300 gallons of emulsion.
- (3) Mix the required amounts of DI-SYSTON Liquid Concentrate and water in a nurse tank equipped with mechanical agitation, start the irrigation system and begin the injection.
- (4) Check frequently to insure all systems are functioning properly.

Solid Set Calibration:

- (1) Determine the area to be treated per irrigation set. If one set irrigates four 1/4 mile long lines on a 50' spacing, 4 x 1,320' x 50 feet = 264,000 square feet or approximately 6 acres.
- (2) If 1-1/3 pints of DI-SYSTON Liquid Concentrate is to be applied per acre, 6 x 1-1/3 or 8 pints (1 gallon) of DI-SYSTON Liquid Concentrate is needed.
- (3) Dilute with sufficient water so injection time will require approximately 30 minutes or more per set. Under no circumstances should injection be less than 10 minutes.
- (4) Repeat applications until the entire field is treated.

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NOTE:

Apply the product only through systems containing anti-syphon and check valve which will prevent water source contamination and overflow of the slurry tank, and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off. Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness. Do not apply when wind speed favors drift, when systems connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled or drained.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute slurry per hour. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable insect control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

Allow foliage to dry thoroughly before entering field. If there is a need to enter fields earlier wear protective clothing.



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RECOMMENDED APPLICATIONS (Continued)

CROP	INSECT	DOSAGE - DI-SYSTON Liquid Concentrate	REMARKS
Tomatoes	<p>Aphids Flea beetles Leafhoppers Leaf miners Mites Colorado potato beetle (early season reduction)</p>	<p>1.6 to 4.6 fluid ounces per 1000 feet of row (for any row spacing*) or 1.3 to 4 pints per acre (38 inch row spacing)</p>	<p><u>Transplant Seed Beds:</u> Apply evenly over bed area in a water emulsion as a broadcast spray prior to seeding at the rate of 4 pints per acre. Work into the top 2- to 3-inches of soil and plant seed in normal manner. <u>Field Applications:</u> Apply specified dosage in a water emulsion or with liquid fertilizer as an injection on each side of the seed furrow or transplanted row at planting time. Do not apply directly on the seed. Where 2 field applications are required, use only 1.6 to 3.2 fluid ounces per 1000 feet of row, or 1.3 to 2.6 pints per acre, injected on each side of the seed furrow or transplanted row at planting and as a side-dressing after plants are established. Allow a minimum of 21 days between applications. Do not apply within 30 days of harvest. (NOTE: Florida Only - Rates up to 14 fluid ounces per 1000 feet of row, with a 72-inch row spacing, may be applied to highly alkaline soils as an injection on each side of the seed furrow or transplanted row at planting time only; or where 2 field applications are required, up to 7 fluid ounces per 1000 feet of row with a 72-inch row spacing, at planting time and up to 7 fluid ounces per 1000 feet 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.</p>

\*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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RESTRICTIONS

Not for home garden use. 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 food crops grown in the greenhouse. Do not apply in any manner not specified on the label.

RE-ENTRY STATEMENTS FOR FARMWORKERS

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 allow reentry into treated fields within 24 hours of application unless appropriate protective clothing is worn. 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.

(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 or 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 Liquid Concentrate on (date of application). Do not allow reentry into treated fields within 24 hours of application unless appropriate protective clothing is worn. If you 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, spray mixture, or rinsate 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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.

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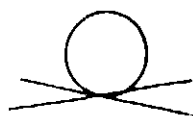
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Handle and open container in a manner as to prevent spillage. If container is leaking, act to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides 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, on skin, or on clothing. Wear protective clothing, natural rubber gloves, and goggles.

Do not breathe fumes or spray mist. Wear a pesticide 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.

HANDLING OF CONTAMINATED ARTICLES: Clothing and rags receiving undiluted DI-SYSTON Liquid Concentrate as a result of leaks, spills, or mishaps should be removed immediately and not reused. These contaminated articles should be buried in the same manner as the empty container; see container disposal section for directions. (Contaminated articles which should be discarded would include: hats, gloves, aprons, coats, boots, etc. not made of rubber or coated with rubber or other similar materials). Clothing receiving spray mist or droplets from the mixed, diluted DI-SYSTON Liquid Concentrate should be removed and decontaminated before reuse. This clothing can be decontaminated by machine washing separately from other items with soap or detergent and bleach in hot water twice before reuse. Protective clothing and equipment should be washed down with detergent or soap and bleach in water. Wash water from the cleaning of protective clothing or equipment should not be allowed to run off or otherwise enter water supplies.

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

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STATEMENTS OF PRACTICAL 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.

NOTE 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 wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes. 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.

DI-SYSTON is a Reg. TM of Bayer AG, Germany.