

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

Dear Mr. Brussell:

Subject: Amendment - Add more Restrictive Grazing Restriction
DI-SYSTON 8
EPA Reg. No. 3125-307
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:

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 you 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 is enclosed for your records.

Sincerely yours,

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

CONCURRENCES

| | | | | | | | |
|---------|--------------------|--|--|--|--|--|--|
| SYMBOL | | | | | | | |
| SURNAME | <i>[Signature]</i> | | | | | | |
| DATE | 11/13/84 | | | | | | |

BLD31

Base Reg. (5091)

U.S. LABEL

Reason to Issue: To add grazing restriction on sorghum & pineapple.
EPA Reg. No. 3125-307

Date of Draft: 10/5/84 (B)
Supersedes Draft Dated: 11/23/83

RESTRICTED USE PESTICIDE

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 8

EMULSIFIABLE SYSTEMIC INSECTICIDE
8 POUND PER GALLON FORMULATION

FORMULATED FOR EFFECTIVE SOIL TREATMENT

Contains 8 lbs. O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate per gallon.

ACTIVE INGREDIENTS:


O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate 85%
Aromatic Petroleum Distillate 3%

NET CONTENTS GALLONS

INERT INGREDIENTS: 12%
100%

KEEP OUT OF REACH OF CHILDREN

EPA Reg. No. 3125-307

DANGER  POISON

PELIGRO

(See rear panel for Statements of Practical Treatment and Other Precautionary Statements)

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:

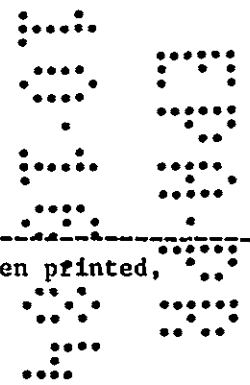
NOV 14 1984

STOP - READ THE LABEL BEFORE USE

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, Mo. 64120

3125-307



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

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 8 emulsifiable 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 8 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 DI-SYSTON 8 per acre is the recommended dosage. When mixing with certain liquid high phosphorous fertilizers, the use of COMPLEX 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, 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 may cause some delay in emergence, stunting of seedlings, or reduction of stand. Such damage may be more pronounced in light sandy soils. Plant injury may also occur or may be enhanced when certain pre-emergent herbicides are used in conjunction with DI-SYSTON.

RECOMMENDED APPLICATIONS
(Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|---|--|--------------------------|---|
| FIELD CROPS | | | |
| Barley | Aphids Mites | 1 pint 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 Applica- tion Spring or Fall) | Aphids (Including Greenbugs) (See NOTE in Remarks) | 1/2 to 1 pt. 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 8 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 pints per acre of DI-SYSTON 8 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 <u>any</u> application of DI-SYSTON 8. (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> |

RECOMMENDED APPLICATIONS
(Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|-----------------------------|---|--|--|
| <u>FIELD CROPS (Cont'd)</u> | | | |
| Corn | Rootworms Aphids Leafhoppers Mites Thrips | 1.2 fl. ounces per 1000 feet of row for any row spacing*. (for 40 inch row spacing use 1 pint 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 <u>or</u> apply with <u>liquid fertilizer</u> 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> |
| Field Sweet Popcorn | Aphids Mites Corn rootworms (adults) | 8 to 16 fl. ozs. Note: Apply only one soil treatment and one foliar treatment per crop season. | <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. For adult corn rootworms apply when there is an average of 3 to 5 beetles per plant. Do not forage or cut treated corn for food, feed, or ensilage within 28 days of treatment. |

DI-SYSTON 8

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|----------------------------|--|---|---|
| FIELD CROPS (Cont.) | | | |
| Oats | Aphids Mites | 1 pint 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 |
| Peanuts | Thrips | 6 pints per acre | <u>BROADCAST APPLICATION:</u> Apply specified dosage per acre as a pre-plant broadcast application. Incorporate into soil to a depth of 3 to 6 inches using a disc or other suitable equipment. Plant crop in usual manner. Do not apply more than once per season. |
| | Aphids Leafhoppers Mites Thrips | 1.1 to 2.25 fl. ozs. per 1000 ft. of row (for any row spacing*) or 1 to 2 pints per acre (36 inch row spacing) | Apply in a water emulsion or with liquid fertilizer as a soil injection on each side of the seed furrow at planting or inject as a side-dressing after plants are established, and where necessary, at pegging time. Do not apply directly on the seed. |
| Sorghum | Aphids (Greenbugs) (See NOTE below) | .9 to 1.2 fl. ozs. per 1000 ft. of row (for any row spacing*) (for 40 inch row spacing use 12 to 16 fl. ozs. per acre) 1.2 fl. ozs. per 1000 ft. of row (for any row spacing*) (for 40 inch row spacing use 1 pint per acre) <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 8 fluid ounces or less/acre). 1.2 fl. ozs. per 1000 ft. of row (for any row spacing*) (for 40 inch row spacing use 1 pint 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. <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 directly on the seed. <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, but not within 45 days of use for forage or fodder. |

DI-SYSTON 8

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS | | | | | | | | | | | | | |
|--|---|------------------------------|--|--------------------------|--|--|----------------------|-----------|----------------------|---------------------------------|----|----|----------------|---|----|-----------|
| Sorghum | Aphids (Greenbugs) (See NOTE below) | 4 to 8 fluid ounces per acre | <p><u>POST PLANTING APPLICATION: FOLIAR SPRAY - A Maximum of 3 Foliar Applications May Be Made of Rates 8 Fluid Ounces or Less/Acre.</u></p> <p>Apply specified dosage per acre in sufficient 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. <u>For Midge:</u> 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><u>DAYS FROM LAST APPLICATION TO HARVEST FOR FOLIAR RATES OF</u></p> <table border="1" data-bbox="876 745 1437 997"> <thead> <tr> <th colspan="3">4 to 8 Fluid Ounces/ACRE</th> </tr> <tr> <th>APPLICATION SCHEDULE</th> <th>FOR GRAIN</th> <th>FOR FORAGE OR FODDER</th> </tr> </thead> <tbody> <tr> <td><u>Any soil plus any foliar</u></td> <td>34</td> <td>45</td> </tr> <tr> <td>1 or 2 foliars</td> <td>7</td> <td>45</td> </tr> <tr> <td>3 foliars</td> <td>34</td> <td>60</td> </tr> </tbody> </table> <p><u>For Banks Grass Mites:</u> The 8 fluid ounce rate may be applied as directed above for aphids. Rates above 8 fluid ounces per acre may not be applied if <u>any soil applications</u> have been made. If rates above 8 fluid ounces per acre are used, do not apply more than twice per crop season nor within 7 days of harvest of grain or 45 days of use as forage or fodder.</p> | 4 to 8 Fluid Ounces/ACRE | | | APPLICATION SCHEDULE | FOR GRAIN | FOR FORAGE OR FODDER | <u>Any soil plus any foliar</u> | 34 | 45 | 1 or 2 foliars | 7 | 45 | 3 foliars |
| 4 to 8 Fluid Ounces/ACRE | | | | | | | | | | | | | | | | |
| APPLICATION SCHEDULE | FOR GRAIN | FOR FORAGE OR FODDER | | | | | | | | | | | | | | |
| <u>Any soil plus any foliar</u> | 34 | 45 | | | | | | | | | | | | | | |
| 1 or 2 foliars | 7 | 45 | | | | | | | | | | | | | | |
| 3 foliars | 34 | 60 | | | | | | | | | | | | | | |
| <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> | | | | | | | | | | | | | | | | |
| Sugar Beets | Aphids Leafhoppers Mites | 1 pint per acre | <p>Apply in a water emulsion or with liquid fertilizer. Spray in the seed furrow 2 inches under the seed or inject on each side of the seed furrow at planting or inject as a side-dressing after plants are established. 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 use on this crop.</p> | | | | | | | | | | | | | |

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DI-SYSTON 8

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|--|--|-------------------------------|--|
| Sugar-cane (Puerto Rico Only) | Aphids | 6 to 9 fluid ounces per acre | Apply specified dosage per acre as a foliar spray in sufficient water for thorough coverage utilizing either an aircraft or ground sprayer. Approximately 4 gallons of water per acre should be used when making aircraft applications. Begin applications when aphids first appear. Repeat as necessary but not more than 4 times per season nor within 28 days of harvest. |
| Tobacco | Aphids Flea beetles | 4 pints (1/2 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) | Aphids (Greenbugs) Mites (See NOTE in "REMARKS") | 4 to 12 fluid ounces per acre | <p><u>For application by aircraft or ground equipment:</u> 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><u>For application in liquid fertilizer:</u> Mix 6 to 12 fluid ounces of DI-SYSTON 8 in the amount of liquid fertilizer to be applied per acre. Apply this mixture as a top dressing with suitable ground equipment.</p> <p><u>Fall Applications:</u> Two applications may be made in the fall. Allow 30 days between applications.</p> <p><u>Spring Applications:</u> 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 <u>any</u> applications within 30 days of grain harvest.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>(1) Do <u>not</u> graze treated fields after <u>any</u> application of DI-SYSTON 8. (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> |

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|--|--|--|---|
| FIELD CROPS (Cont'd) | | | |
| Wheat (Fall) | Hessian fly Aphids (Greenbugs & Oat bird cherry - Except Calif- ornia) | 0.25 fl. ounces per 1000 ft. of row (see chart below) or up to 1 pint per acre | Apply as a soil injection in water emulsion or with liquid fertilizer at planting time in the fall. |
| | | | 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 |
| | | | Ounces DI-SYSTON 8 per 1000 ft. of row based on 3 inch band |
| | | | Row Spacing Ounces/Acre |
| | | | 7 or 8 inch rows 15.5 .25 |
| | | | 10 inch rows 13.25 .25 |
| | | | 12 inch rows 10.75 .25 |
| 14 inch rows 9.5 .25 | | | |
| 16 inch rows 8.5 .25 | | | |
| 18 inch rows 7.0 .25 | | | |
| SEED FIELD CROPS | | | |
| Alfalfa | Aphids (pea) | 8 to 16 fluid ounces per acre | Apply specified dosage by aircraft or ground equipment in sufficient water to obtain thorough coverage but not less than 1 gallon total volume per acre. Do not apply more than 4 times per season nor within 14 days of harvest. Chaff and hulls from treated seed crop may be used for feed or forage, however, do not cut green crop for these purposes. |
| FRUIT | | | |
| Pineapple (Hawaiian Islands Only) | Mealybug | 2.5 pints per acre | Apply with liquid fertilizer as a soil injection. Repeat as necessary but not more than twice per crop period nor within 60 days of harvest. Do not use treated foliage for feed, food or ensilage. |
| NON-BEARING FRUIT | | | |
| Strawberries (Propagating Plants Only) | Aphids Mites (except cyclamen mite) | 2.8 to 5 fluid ounces per 1000 feet of row (for any row spacing*) or 2 to 4 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. |

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|--|---|---|---|
| <u>NUTS</u> | | | |
| Pecans (South Central & South Western States Only) | Aphids | 1.5 to 3 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 graze grass under treated trees. |
| Pecans | Aphids | 4 to 6 fluid ounces | <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. |
| | | 3/4 to 1 pint | <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. |
| <u>VEGETABLES</u> | | | |
| Beans | Aphid Leaf- hoppers Mexican bean beetle (larvae) Mites Thrips | .9 to 1.9 fluid ounces per 1000 feet of row (for any row spacing*) - or - 1 to 2 pints per acre (30 inch row spacing) (For extremely narrow row spacing, do not exceed the 2 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 " <u>IMPORTANT</u> " statement under "Recommended Applications" for additional information before use on this crop. |

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|----------------------------|---|--|---|
| <u>VEGETABLES</u> (Cont'd) | | | |
| Lettuce | Aphids Leafhoppers Mites Thrips | .6 to 1.2 fluid ounce per 1000 feet of row (for any row spacing*) or 1 to 2 pints per acre (20 inch row spacing) | <u>Spring or Summer Seeded Lettuce:</u> 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. <u>Fall or Winter Seeded Lettuce:</u> 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 to 2.5 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. |
| Potatoes | Aphids | 3 to 4 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. |
| | Aphids Flea beetles (except tuber flea beetles) Leafhoppers Potato psyllid Southern "potato wire-worm" Colorado potato beetle (early season reduction) | 2.25 to 3.5 fl. ozs. per 1000 feet of row (for any row spacing*) (for 38 inch row spacing use 2 to 3 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 <u>additional</u> side-dress application may be made as a water emulsion injection after plants become established. Do not make more than two <u>soil</u> 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. |

(Potato recommendations continued on next page).

DI-SYSTON 8

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|--|--------------------|-------------------------------|---|
| VEGETABLES (Cont'd) | | | |
| Potatoes | Green peach aphids | 6 to 16 fluid ounces per acre | FOLIAR APPLICATIONS: 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. In Arizona and California, do not make foliar applications of DI-SYSTON 8 to the potato variety, Centennial. |
| NOTE: 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 Oregon, Washington, Idaho, and Utah, apply DI-SYSTON 8 at the rate of 1 to 3 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.

Up to 3 applications of the 1 pint per acre rate may be made but not within 30 days of harvest, or, only 1 application of rates above 1 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.

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 8 at the rate of 1 pint per acre to 130 acres you will need 130 x 1 pint or 130 pints (16-1/4 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 8 to obtain 300 gallons of emulsion.

Sprinkler Irrigation Application to Potatoes (Cont'd.)

- (3) Mix the required amounts of DI-SYSTON 8 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, $4 \times 1,320' \times 50 \text{ feet} = 264,000$ square feet or approximately 6 acres.
- (2) If 1 pint of DI-SYSTON 8 is to be applied per acre, 6 x 1 or 6 pints DI-SYSTON 8 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.

NOTE:

Apply the product only through systems containing anti-siphon and check valves 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.

DI-SYSTON 8

RECOMMENDED APPLICATIONS (Continued)

| CROP | INSECT | DOSAGE DI-SYSTON 8 | REMARKS |
|----------|---|--|--|
| Spinach | Aphids Leaf-hoppers Mites Thrips | .6 fluid ounces per 1000 feet of row (for any row spacing*) -or- 1 pint per acre (20 inch row spacing) | Apply in a water emulsion or with liquid fertilizer as an injection on each side of the seed furrow at planting time only. Do not apply directly on the seed. |
| Tomatoes | Aphids Flea beetles Leaf-hoppers Leaf miners Mites Colorado potato beetle (early season reduction) | 1.2 to 3.5 fluid ounces per 1000 feet of row (for any row spacing*) - or - 1 to 3 pints per acre (38 inch row spacing) | <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 3 pints per acre. Work into the top 2- to 3-inches of soil and plant seed in normal manner.</p> <p><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 1.2 to 2.4 fluid ounces per 1000 feet of row, or 1 to 2 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.</p> <p>(NOTE: Florida Only - Rates up to 10.5 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 5.25 fluid ounces per 1000 feet of row with a 72-inch row spacing, at planting time and up to 5.25 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 (BANDS 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

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 sprays have dried. 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 8 on (date of application). Do not enter without appropriate protective clothing until sprays have dried. 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.

Handle and open container in a manner as to prevent spillage. If container is leaking invert 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.

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DI-SYSTON 8

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 8 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 8 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.

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

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 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, patient should be placed in an oxygen tent and treated symptomatically.

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ENVIRONMENTAL HAZARDS

This product is toxic to fish, shrimp, crab, birds, and other wildlife. Birds and other wildlife in treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. 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.

DI-SYSTON 8