

YLD19

Base Pre-Reg (6149)

U.S. LABEL

Reason to Issue: To add note about possible Colorado potato beetle resistance and to revise potato application directions; 4/29/87
Draft: To revise in accordance with internal comments.

Date of Draft: 4/29/87 (Pre-Reg) (M)
Supersedes Pre-Reg Draft Dated: 11/24/86

EPA Reg. No. 3125-307

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 8

EMULSIFIABLE SYSTEMIC INSECTICIDE
8 POUND PER GALLON FORMULATION

ACTIVE INGREDIENT:

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

INERT INGREDIENTS: 12%
100%

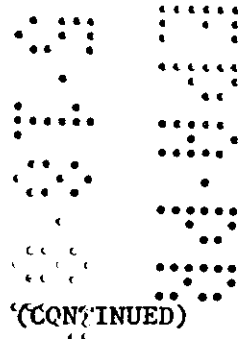
AMENDMENT TO
PREVIOUSLY REGISTERED LABELING

Revise as Follows:

ACCEPTED

OCT 27 1987

U.S. Department of Agriculture, Act.
Fungicide, Insecticide, and Plant Regulator Act,
as amended, for the pesticide
registered under
EPA Reg. No. 3125-307



RECOMMENDED APPLICATIONS

CROP	INSECT	DOSAGE DI-SYSTON 8	REMARKS
VEGETABLES (Cont'd)			SOIL APPLICATION -- PRE-PLANT BROADCAST: 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.
Potatoes	Aphids	3 to 4 pints per acre	
	Aphids Flea beetles (except tuber flea beetles) Leafhoppers Potato psyllid Southern potato wireworm 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)	SOIL APPLICATION - FURROW: 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 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. Note: Colorado Potato Beetle populations in the northeast states (except Maine), as well as Virginia and North Carolina, have developed resistance to insecticides, including DI-SYSTON. Consult your local Extension Service or MOBAY sales representative for details.
Potatoes	Green peach aphids (East of the Rocky Mountains only)	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. Do not tank mix this product with Phosalone.
			NOTE: Foliar applications may be made following at-planting soil treatment as recommended above or on the label for DI-SYSTON 15% Granular.

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

DI-SYSTON 8

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 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.

One application of 3 pints per acre may be made but not within 60 days of harvest. Application 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 8 at the rate of 3 pints per acre to 130 acres you will need 130 x 3 pints or 390 pints (48 3/4 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.
- (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, $4 \times 1,320' \times 50 \text{ feet} = 264,000 \text{ square feet}$ or approximately 6 acres.
- (2) To apply 3 pints of DI-SYSTON 8 per acre, 6 x 3 or 18 pints (2 1/4 gallons) 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.