

DISULFOTON

LIQUID CONCENTRATE INSECTICIDE

RESTRICTED USE PESTICIDE

If in retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicators Certificate.

ACTIVE INGREDIENTS:
 O, O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] PHOSPHORODITHIOATE* 65%
 XYLENE 27%
INERT INGREDIENTS: 8%
TOTAL 100%

*CONTAINS 6 LBS. ACTIVE PER GALLON

NET CONTENTS _____

EPA REG. NO. 2749-290

DANGER

POISON



POISON

KEEP OUT OF REACH OF CHILDREN.
 SEE ANTIDOTE STATEMENT
 NOT FOR USE OR STORAGE IN OR AROUND THE HOME.

FEB 27 1981

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DIRECTIONS FOR

CROP	INSECT	DOSAGE DISULFOTON LIQUID CONCENTRATE
FIELD CROPS: ALFALFA	Aphids Mites	1.3 pints per acre
BARLEY OATS	Aphids Mites	1.3 pints per acre
CORN	Rootworm Aphids Leafhoppers Mites Thrips	1.3 pints per acre (40" row spacing) NOTE: Do not apply to corn more than once per season regardless of the method of application.
COTTON**	Aphids Mites Thrips	.75 to 1.3 pints per acre (40" row spacing)

(65)

USE

REMARKS
Apply as a broadcast spray in a water emulsion or with liquid fertilizer in the early spring prior to growth or to the stubble immediately after the alfalfa has been cut and removed from the field. Do not apply DISULFOTON L.C. to alfalfa foliage. Allow a minimum of 28 days between applications.
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.
TREATMENT AT PLANTING: As a water emulsion, spray in a 4-6" band directly behind the planter shoe in front of the press wheel or apply w/L.C. 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 feed or ensilage within 40 days of treatment. Do not harvest for human food purposes within 100 days of treatment.
POST PLANT SIDE DRESS TREATMENT: An alternative treatment for early season control of aphids, leafhoppers, mites & 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 corn for food, feed or ensilage within 100 days of treatment.
PREPLANT: As a preplant soil incorporated treatment, DISULFOTON Liquid concentrate may be applied in approximately a 16" band as a water emulsion either alone or with a preemergence herbicide.
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.
RATE CHART FOR REPLANT OR PLANTING TIME APPLICATION
HEAVY SOIL: 1.6 fl. oz. LC/1000' of row or 1-1/3 pints LC/acre.
MEDIUM SOIL: 1.3 fl. oz. LC/1000' of row or 1 pt LC/acre.
LIGHT SOIL: 1 fl. oz. LC/1000' of row or 3/4 pint LC/acre.
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.

CROP	INSECT	DOSAGE DISULFOTON LIQUID CONCENTRATE	REMARKS
NUTS:			
PECANS (South Central & S. Western States)	Aphids	2-4 pints per acre	Apply by spraying 6" 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 2-3". 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 90 days of treatment.
VEGETABLES:			
BEANS	Aphids Leafhoppers Mex. Bean Beetle (larvae) Mites Thrips	1.3 to 2.6 pints per acre (30" 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 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 are established but not within 60 days of harvest. Do not apply more than once per season.
BRUSSELS SPROUTS	Aphids Flea Beetles Leafhoppers Mites Thrips	1.3 pints per acre (36" 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/acre. Work into the top 2-3" of soil and plant seed in normal manner.
CAULIFLOWER	Aphids Flea Beetles Leafhoppers		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 and where necessary, injected as a side dressing after plants are 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 for Cauliflower. Allow a minimum of 21 days between applications.
BROCCOLI	Aphids Flea Beetles Leafhoppers	1.3 pints per acre (36" 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 2-3" of soil and plant seed in normal manner.
CABBAGE	Aphids Flea Beetles Root Aphids	2 pints per acre (38" 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 seed. Do not apply more than 1 field application per season. Do not use within 14 days of harvest for broccoli & 42 days for cabbage.
LETTUCE	Aphids Leafhoppers Mites Thrips	1.3 to 2.6 pints per acre	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

2749-290

DANGER: KEEP OUT OF REACH OF CHILDREN.

POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. RAPIDLY ABSORBED THROUGH THE SKIN. DO NOT BREATHE SPRAY MIST. USE WITH ADEQUATE VENTILATION AND WHEN USING, WEAR PROTECTIVE CLOTHING, GLOVES, MASK AND GOGGLES. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. IN CASE OF CONTACT, WASH THOROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING WITH SOAP AND WATER BEFORE REUSE. WEAR MASK OR RESPIRATOR OF A TYPE RECOMMENDED BY THE U. S. BUREAU OF MINES TO GIVE ADEQUATE PROTECTION AGAINST THIS MATERIAL. KEEP ALL UNPROTECTED PERSONS OUT OF THE OPERATING AREA OR VICINITY WHERE THERE MAY BE DANGER OF DRIFT. WASH HANDS, ARMS AND FACE WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING OR SMOKING.

IF EYES ARE CONTAMINATED, FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

IN CASE OF POISONING, CALL A PHYSICIAN IMMEDIATELY. SYMPTOMS OF POISONING ARE A SENSE OF "TIGHTNESS" IN THE CHEST, STOMACH PAINS, CONTRACTED PUPILS, SWEATING, VOMITING AND DIARRHEA. IF SWALLOWED, INDUCE VOMITING BY GIVING 3 TEASPOONFULS OF TABLE SALT IN A GLASS OF WARM WATER. REPEAT UNTIL VOMIT FLUID IS CLEAR. CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN:

ANTIDOTE IS ATROPINE SULFATE. 2-PAM IS ALSO ANTIDOTAL AND MAY BE ADMINISTERED IN CONJUNCTION WITH ATROPINE.

KEEP AWAY FROM DOMESTIC ANIMALS AND FOODSTUFFS.

THIS PRODUCT IS TOXIC TO FISH AND WILDLIFE. BIRDS FEEDING ON TREATED AREAS MAY BE KILLED. KEEP OUT OF LAKES, STREAMS OR PONDS. DO NOT CONTAMINATE WATER BY CLEANING OF EQUIPMENT OR DISPOSAL OF WASTES. DO NOT APPLY WHERE RUNOFF IS LIKELY TO OCCUR. DO NOT APPLY WHEN WEATHER CONDITIONS FAVOR DRIFT FROM AREAS TREATED. DO NOT REUSE EMPTY CONTAINER. DESTROY EMPTY CONTAINER BY PERFORATING OR CRUSHING AND BURYING IN A SAFE PLACE.

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. DISULFOTON LIQUID CONCENTRATE 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 DISULFOTON LIQUID CONCENTRATE.

RESTRICTIONS: NOT FOR HOME GARDEN USE. DO NOT USE ON OTHER CROPS USED FOR FOOD OR FORAGE. DO NOT TREAT FOOD CROPS GROWN IN THE GREENHOUSE.

PEANUTS	Aphids Leafhoppers Mites Thrips	1.3 - 2.6 pints per acre (36" row spacing)
SORGHUM	Aphids (Greenbugs)	1/3 - 2/3 pint per acre
SUGAR BEETS	Aphids Leafhoppers Mites	1.3 pints per acre
SUGARCANE (Puerto Rico only)	Aphids	0.5 - 0.75 pint per acre
WHEAT (Foliar applica- tion Spring or Fall Oklahoma)	Aphids (Greenbugs) Mites	1/3 to 1 pint per acre
WHEAT (Fall)	Hessian fly	1.3 pints per acre
PINEAPPLE (Hawaiian Islands only)	Mealybug	3.3 pints per acre
NON BEARING FRUIT:		
STRAWBERRIES (Propagating plants only)	Aphids Mites (except Cy- clamen mites)	2.6 to 5.3 pints per acre (42" row spacing)

(67)

2749-290

BEST DOCUMENT AVAILABLE

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.

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.

FOLIAR APPLICATION: For application by aircraft or ground equipment: Apply specified dosage per acre in sufficient water to obtain thorough coverage. For aerial application do not use less than 1 gallon of water per acre, and for ground equipment do not use less than 5 gallons of water per acre. Do not apply more than twice per crop season nor within 7 days of harvest of grain or 28 days of use as forage or fodder.

Apply in a water emulsion or with liquid fertilizer. Spray in the seed furrow 2" under 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.

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.

For application by aircraft or ground equipment: Apply sufficient 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. For application in liquid fertilizer: Mix 1/2 to 1 pint of DISULFOTON Liquid Concentrate in the amount of liquid fertilizer to be applied per acre. Apply this mixture as a top dressing with suitable ground equipment. Do not apply more than once per crop season nor within 45 days of harvest. Do not graze treated fields.

Apply as a soil injection in water emulsion or with liquid fertilizer at planting time in the fall.

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. When 2 treatments are used, do not ensile foliage less than 1 year after last applications.

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.

	Thrips	1.3 to 2.6 pints per acre (20" row spacing)	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.
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 60 days of harvest.
POTATOES	Aphids Flea beetles (except for tuber flow beetles) Leafhoppers Pot. psyllid So. Potato wireworm Colorado pot. beetle (early season reduction)	2.6 to 4 pints per acre (38" row spacing)	Apply undiluted in specially designed equipment for low volume soil injection or in a water emulsion or with liquid fertilizer as an in furrow spray or injection on each side of the seed furrow at planting or inject as a side dressing after plants become established. Do not apply more than once per season nor within 75 days of harvest. Higher rate to be used in organic soils.
SPINACH	Aphids Leafhoppers Mites Thrips	1.3 pints per acre (20" row spacing)	Apply in a water emulsion or with liquid fertilizer as an injection on each side of the side furrow at planting time only. Do not apply directly on the seed.
TOMATOES	Aphids Flea beetles Leafhoppers Leaf miners Mites Colorado potato beetle (early season reduction)	1.3 to 4 pints per acre (38" 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 4 pints per acre. Work into the top 2-3 inches of soil and plant seed in normal manner. 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 time. Do not apply directly on the seed. Where 2 field applications are required, use only 1.6 to 3.2 fl. ozs. of Liquid Concentrate per 1000' 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 soil 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 fl. ozs. per 1000' 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.			

Manufactured for:
ACETO AGRICULTURAL CHEMICALS CORPORATION
126-02 Northern Boulevard, Flushing, N.Y. 11368

(68)

684

2749-290