

16-DEC-1998

DI-SYSTON(R)

LIQUID CONCENTRATE

SYSTEMIC INSECTICIDE

Contains disulfoton

RESTRICTED

GUARANTEE: Disulfoton.....720 g/L

NET CONTENTS 20 LITRES

REGISTRATION NO. 8740
PEST CONTROL PRODUCTS ACT

DANGER POISON

KEEP OUT OF REACH OF CHILDREN

CALL A DOCTOR IN CASE OF ACCIDENT

(See side panel for first aid and danger statements)

READ THE LABEL BEFORE USING

CHEMAGRO LIMITED
77 Belfield Road
Etobicoke, Ontario,
Canada M9W 1G6

NEW REGISTRATION - BRITISH COLUMBIA ONLY

For use on iceberg lettuce only for
the control of lettuce aphids.

Apply 1.5 L/ha as a foliar spray with a boom-type sprayer just before heads begin to form in at least 500 litres of water per hectare. Apply only once per crop and at least 28 days before harvest. Apply in early morning or/late afternoon to avoid foraging bees.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

RESTRICTED USES

NATURE OF RESTRICTION: This product is to be stored or displayed separate from food or feed.

DIRECTIONS FOR USE

DI-SYSTON is a systemic insecticide entering 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.

DI-SYSTON Liquid Concentrate formulation 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 or with liquid fertilizer. 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 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 preemergent herbicides are used in conjunction with DI-SYSTON.

CROP	INSECT	DOSAGE-DI-SYSTON Liquid Concentrate	REMARKS
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FIELD CROPS Barley Oats	Aphids Mites	1.5 L/ha	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.
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Corn	Rootworms	15 mL/100 of row (for any row spacing*) or 1.5 L/ha (100 cm row spacing)	Treatment at Planting Time: Spray in a 10 to 15 cm band directly behind the planter shoe in front of the press wheel. Do not forage or cut treated Corn for feed or ensilage within 40 days of planting. Do not harvest for human food purposes within 100 days of treatment.
Wheat (Fall)	Hessian fly	1.5 L/ha	Apply as a soil injection in water emulsion or with liquid fertilizer at planting time in the fall.

<p>VEGETABLES Asparagus (post-harvest)</p>	<p>Asparagus aphid</p>	<p>1.5 L/ha</p>	<p>Apply as a foliar spray using a boom-type sprayer only to post-harvest fern growth when aphids and damage are observed, i.e., mid to late July. Apply in enough water to cover and penetrate the fern growth. Contact local extension before considering another application . Maximum 2 applications. Apply in early morning or late afternoon to avoid foraging bees. Do not apply within 6 months of harvest.</p>
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Beans	Aphids Leafhoppers Mexican bean beetle (larvae) Mites Thrips	10 to 20 mL/100 m of row (for any row spacing*) or 1.5 to 3.25 L/ha (75 cm row spacing) (For extremely narrow row spacing, do not exceed the 3.25 L/ha 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
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<p>Brussels Sprouts Cauliflower</p>	<p>Aphids Flea beetles Leafhoppers</p>	<p>15 mL/100 of row (for any row spacing*) or 1.5 L/ha (90 cm row spacing)</p>	<p>Apply in a water emulsion or with liquid fertilizer 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 directly on the seed. Do not apply more than twice 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.</p>
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<p>Broccoli Cabbage</p>	<p>Aphids Flea beetles</p>	<p>15 mL/100 m of row (for any row spacing*) or 1.5 to 2.75 L/ha (90 cm row spacing)</p>	<p>Apply in a water emulsion or with liquid fertilizer 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 directly on the seed. Do not apply more than once per season. Do not use within 42 days of harvest.</p>
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Lettuce	Aphids Leafhoppers	7.5 to 15 mL/100 m of row (for any row spacing*) or 1.5 to 2.75 L/ha (50 cm row spacing)	Apply as 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. Read "IMPORTANT" statement under "Recommended Applications" for additional information before use on this crop.
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Peas	Aphids Leafhoppers	1.5 to 3.5 L/ha	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.
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<p>Potatoes</p>	<p>Aphids (New Brunswick only)</p>	<p>15 mL/100 of row (for any row spacing*) or 1.5 L/ha (95 cm row spacing)</p>	<p>Apply as 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</p>
	<p>Aphids (all areas except New Brunswick) Colorado potato beetle (early season reduction) Leafhoppers Potato flea beetles (except tuber flea beetles) Potato psyllid</p>	<p>30 to 45 mL/100 m of row (for any row spacing*) or 2.75 to 4.75 L/ha (95 cm row spacing)</p>	<p>. Do not apply in direct contact with the seed piece, as crop injury may result. Do not apply within 90 days of harvest. Higher rate to be used in organic soils.</p>

<p>Eggplant Peppers</p>	<p>Aphids Flea beetles Leafhoppers</p>	<p>15 to 30 mL/100 m of row (for any row spacing* or 1.5 to 3.25 L/ha (95 cm row spacing)</p>	<p>Apply as a water emulsion or with liquid fertilizer as an injection on each side of the seed furrow at planting or injected as a side-dressing after plants become established . Do not apply directly on the seed. Do not apply more than once per season nor within 90 days of harvest.</p>
<p>Spinach</p>	<p>Aphids Leafhoppers Mites Thrips</p>	<p>7.5 mL/100 of row (for any row spacing*) of 1.5 L/ha (50 cm row spacing)</p>	<p>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.</p>

Tomatoes	Aphids Flea beetles Leafhoppers Leaf miners Mites	15 to 45 mL/100 m of row (for any row spacing*) or 1.5 to 4.75 L/ha (95 cm row spacing)	Apply as 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. Where 2 treatments are required, use only 15 to 30 mL of Liquid
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Concentrate per 100 m of row, or 1.5 to 3.25 L/ha, injected on each side of the seed furrow at planting and as a side-dressing after plants are established . Allow a minimum of 21 days between applications. Do not apply

	Colorado potato beetle (early season reduction)	30 mL/100 m or row (for any row spacing*) or 3.25 L/ha (95 cm row spacing)	
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*ON ROW CROPS WHERE ROW SPACING IS EXTREMELY NARROW, DO NOT PLACE DI-SYSTON TREATED ZONES (BAND OR FURROW) CLOSER TOGETHER THAN 15 CENTIMETRES.

SEED CROPS

Applications at the rates shown may be made at any time to all crops listed on this label provided they are being grown for seed purposes and are not to be used for feed, food, or forage. For specific recommendations regarding timing of applications, etc., consult local authorities.

PRECAUTIONS

Not for home garden use. Do not treat plants grown in the greenhouse or indoors. 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. To protect fish and wildlife, do not contaminate streams, lakes, or ponds.

DISPOSAL OF EMPTY CONTAINER

1. Do not reuse the container.
2. Completely empty the container into application equipment and add all rinsings to the spray mixture in the tank.
3. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
4. Dispose of the empty container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product and the cleanup of spills contact the regional office of Conservation and Protection, Environment Canada.

DANGER

Poisonous if swallowed, inhaled, or absorbed through the skin. Rapidly absorbed through the skin. Do not get in eyes or on skin. Wear protective clothing, natural rubber gloves, and goggles.

Do not breathe fumes or spray mist. Wear a mask or respirator effective for protection against DI-SYSTON. Information as to suitable types of masks or respirators is available from your dealer.

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

FIRST AID: 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 (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. The patient should be lying down with the head below the foot level and facing down or to one side. Professional medical assistance should be secured immediately. DO NOT INDUCE VOMITING TO AN UNCONSCIOUS PERSON OR TO PERSONS IN A CONVULSIVE STATE. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash immediately with flowing water for at least 15 minutes.

POISON

TOXICOLOGICAL INFORMATION:

SYMPTOMS OF POISONING: A sense of "tightness" in the chest. Sweating.

Contracted pupils. Stomach pains. Vomiting and diarrhea.

ANTIDOTE: Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property rising from the use or handling of this product and accepts the product on that condition.

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