

**Group/1B/Insecticide**

**MALATHION  
500**

**NET CONTENTS: 10 LITRES**

**EMULSIFIABLE CONCENTRATE INSECTICIDE**

**AGRICULTURAL**

Controls: Grasshoppers, Aphids, Mites, Flea Beetles, House Flies and many other insects.

**READ THE LABEL AND ATTACHED BROCHURE BEFORE USING**

**GUARANTEE:** Malathion 500 g/L

**REGISTRATION NO.** 5821

**PEST CONTROL PRODUCTS ACT**

**WARNING**

**POISON**

Interprovincial Cooperative Limited, P.O. Box 1050, Saskatoon, Saskatchewan S7K 3M9  
1-204-233-3461

® T.M. Reg'd.

RC 944-0907 – 10 Litre

**DIRECTIONS:** Malathion 500 Emulsifiable Concentrate Insecticide is a general purpose insecticide, which can be used on vegetables, field crops, livestock and in farm buildings. The product works best when used at temperatures above 20°C. On any crop, use sufficient water to obtain good coverage of all the foliage. Consult the local Agriculture Extension Services for timing of sprays to obtain the best results.

The number in brackets after each crop is the pre harvest spray interval. For example, Wheat (7). Do not harvest wheat within 7 days of spraying.

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### SECTION 1

### Field Crops

CROP(S)	INSECTS	RATE PER HECTARE	DIRECTIONS
Wheat (7), Oats (7), Barley (7), Rye (7)	English Grain Aphid, Green Bug, Winter Grain Mite, ArmyWorm	1.5-2 Litres	Spray thoroughly. Repeat as necessary. Ground or aerial application. Treat when worms first appear.
Cereal Crops (7), Grasses (7) or Legumes grown for Hay (7)	Cereal Leaf Beetle Grasshoppers	550 mL-1.1 L 1.7 Litres	Apply when larvae reach 2-3 per stem. Ground or aerial application. Apply for thorough coverage.
Flax (7)	Grasshoppers	1.1-1.7 L	Ground or aerial application. Apply for thorough coverage. Treat when bees are absent.
Canola (Rapeseed)(7)	Diamond Back Moth (Larvae) Flea Beetles Grasshoppers	550 mL-850 mL 1.1 Litres 1.1-1.7 L	Ground or air application. Apply when bees are absent.
Lentils (14)	Grasshoppers	1.7 L	Spray thoroughly. Ground or aerial application. Repeat Application in 7 days. Maximum of two (2) Applications per season.

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**SECTION 2 Forages**

<b>CROP(S)</b>	<b>INSECTS</b>	<b>RATE PER HECTARE</b>	<b>DIRECTIONS</b>
Sweet Clover (7)	Sweet Clover Weevil	1.4-2.5 L	Ground or aerial application. Spray margins of fields of first year clover in late summer or early fall. Remove cattle while spraying.
Alfalfa (7)	Alfalfa Weevil, Grasshoppers, Lygus Bug, Leaf Hopper, Aphids, Spittle Bugs	2-3 Litres	Ground or aerial application. Apply when 75% of foliage shows damage. Do not apply to Alfalfa in flower.

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**SECTION 3 Vegetables**

DO NOT APPLY BY AIR TO VEGETABLE CROPS

<b>CROP(S)</b>	<b>INSECTS</b>	<b>RATE PER HECTARE</b>	<b>DIRECTIONS</b>
Asparagus (1)	Asparagus Beetle	3 Litres	Spray thoroughly. Repeat as necessary.
Tomato (3), Potato (3)	Aphids, Leaf Hopper, Leaf Miners, Mites, Cucumber Beetle, Colorado Potato Beetle	1.4-2 Litres	Spray thoroughly. Repeat as necessary.
Bean (1), Beets (7), Radish (7)	Mexican Bean Beetle, Aphids, Mites, Leaf Hopper, Flea Beetles	1.4-3 Litres	Spray thoroughly. Repeat as necessary.
Turnip (7), Carrot (7), Lettuce (Leaf, Head) (14), Cucumber (3), Squash (3), Broccoli (3), Brussel Sprouts (7), Cabbage (7), Eggplant (3)	Aphids, Cabbage Looper, Imported Cabbage Worm, Spider Mites, Leaf Hopper, Cucumber Beetle, Flea Beetles	1.4-3 Litres	Spray thoroughly. Repeat as necessary. Use at least 2L for Cucumber Beetles. Spray Cucumbers when foliage is dry.

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#### SECTION 4

#### Ornamentals

DO NOT APPLY BY AIR TO ORNAMENTALS

<b>CROP(S)</b>	<b>INSECTS</b>	<b>RATE PER HECTARE</b>	<b>DIRECTIONS</b>
Ornamentals	Aphids, Bagworms, Shoot Moth, Lace Bugs, Leaf Hoppers, Leaf Miners, Mealy Bugs, Scales (Crawlers), Spider Mites, Tarnished Plant Bug, Tent Caterpillar, Thrips	1.4-3 Litres	Apply when pests first appear. Do not apply to Crimson Maples.

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#### SECTION 5

#### Empty Grain Bins

<b>CROP(S)</b>	<b>INSECTS</b>	<b>RATE PER HECTARE</b>	<b>DIRECTIONS</b>
Stored Grains (Empty Bin Spray)	Confused Flour Beetle, Grain Mite, Granary Weevil, Rusty Grain Beetle, Sawtoothed Grain Beetle, Indian Meal Moth, Lesser Grain Borer	250-300 mL per 5 Litres of water on 100 m <sup>2</sup>	Spray 2-4 weeks before filling. Repeat as necessary. May be used within 1 day of grain storage.

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#### SECTION 6

#### Fly and Lice Control

<b>CROP(S)</b>	<b>INSECTS</b>	<b>RATE PER HECTARE</b>	<b>DIRECTIONS</b>
Farm Buildings	House Fly, Mosquito, Stable Fly	50-100 mL per 5 L of water	5-10 Litres/100m <sup>2</sup> . Repeat in 2-3 weeks or as necessary. Do not use in milk processing rooms.
Beef and non- Lactating Dairy Cattle, Sheep	Lice, Ticks, Mosquitoes	1 Litre in 100 Litres of water	Avoid eyes, ears, nose and mouth. Do not apply to animals under one month of age, or dairy cattle within two weeks of freshening. For cattle, do not use within 30 days of slaughter. Do not spray when temperature is below 10°C.

Backrubber, Beef & Dairy Cattle (lactating)	Horn Fly, Lice	4 Litres in 96 L of fuel or diesel oil	One backrubber per 35-45 head of cattle. Do not use on animals under one month of age. Do not use within 30 days of slaughter.
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**GO TO SECTION 7**

## **SECTION 7 MIXING AND APPLICATION INSTRUCTIONS**

**1.** Fill tank half full with water. Start agitation. **2.** Add required Malathion 500. **3.** Complete filling of spray tank with water. **4.** Apply a minimum of 200 Litres of spray per hectare for ground application and sufficient volume for uniform application. Higher volumes may be required on larger plants, but avoid run-off, for ground boom application. For vegetable crops and ornamentals, apply sufficient water for uniform, thorough coverage. Consult provincial extension services for detailed spray application volumes as required. **5.** Do not exceed 275 kPa, pressure for ground boom application.

**Use Precautions for Aerial Application (to cereal crops, canola (rapeseed), lentils, sweet clover, alfalfa and flax only):** Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices. Do not use human flaggers.

**Use Precautions:** Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module*, developed by CAPCO. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

**Operator Precautions:** Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

**Product Specific Precautions:** Read and understand the entire label before opening this product. If you have questions, call the manufacturer at (204) 233-3461 or obtain technical advice from the distributor

or your provincial agriculture representative. Application of this specific product must meet and/or conform to the following: **Volume:** Apply the recommended rate in a minimum spray volume of 30 litres per hectare. Use boom pressure of 235 kPa or less. Avoid placing nozzles where spray will enter wing tip vortices. **Buffer zones:** Appropriate buffer zones should be established between treatment areas and aquatic systems and treatment areas and significant wildlife habitat.

**GO TO SECTION 8**

## **SECTION 8                      PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.** Hazardous if swallowed, inhaled, or absorbed through the skin. Avoid breathing spray mist or dust. Avoid contact with skin, eyes or clothing. Wash exposed skin areas thoroughly with soap and water after working with Malathion. Clean contaminated clothing before re-use. Do not contaminate feed or foodstuffs. Do not treat dairy barns. Do not apply to pastures while occupied by dairy animals. Do not treat any plants while in bloom. Avoid contaminating any body of water. Wash treated food before eating. Do not apply to eyes or ears (except in ointment form) or nose of any animal. Do not store product near food, feed, fertilizers, seed, and like commodities. Highly toxic to fish and bees. Emulsifiable concentrate formulations may cause injury to young cucurbits and ornamentals (crassula; holly; African violet; petunia; sabina and canaerti junipers; Boston, maidenhair and pteris ferns).

If this pest control is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web-site at [www.croplife.ca](http://www.croplife.ca).

**Environmental Precautions:** This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

**RESISTANCE MANAGEMENT:** For resistance management, please note that Malathion 500 Emulsifiable Concentrate Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Malathion 500 Emulsifiable Concentrate Insecticide and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

**To delay insecticide resistance:** Where possible, rotate the use of Malathion 500 Emulsifiable Concentrate Insecticide or other Group 1B insecticides with different groups that control the same pests in a field. Use tank mixtures with insecticides from a different group when such use is permitted. Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices. Monitor treated pest populations for resistance development. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area. For further information or to report suspected resistance contact Interprovincial Cooperatives Ltd. at (204) 233-3461.

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## **SECTION 9                      FIRST AID**

In case of exposure to Malathion, move patient from area and remove all contaminated clothing. Wash all exposed skin with soap and water. If in eyes, flush with water. If breathing is weak or irregular give artificial respiration. Get prompt medical attention, or contact a poison control centre immediately.

**DANGER-POISON** – This product contains petroleum distillates. If ingested do not induce vomiting. If patient is unconscious give him air. Obtain medical attention immediately, or contact a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**GO TO SECTION 10**

## **SECTION 10                      TOXICOLOGICAL INFORMATION**

Atropine is antidotal. Do not use 2-PAM.

**GO TO SECTION 11**

## **SECTION 11                      DISPOSAL**

### **DISPOSAL:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple – or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

(Container Label)

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500**

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**AGRICULTURAL**

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® T.M. Reg'd.

RC 944-0907 – 10 Litre



(BACK PANEL)

# MALATHION 500

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