

WILSON MALATHION 50EC LIQUID INSECTICIDE REGISTRATION NO. 16099

EFFECTIVE 2003: IMPORTANT CHANGES TO REGISTERED USES FOR MOSQUITO CONTROL IN RESIDENTIAL AREAS

Mosquitoes, flies (house and stable flies) and small flying insects for use outdoors such as farm yard areas (pens, manure piles, garbage areas), feed lots, pastures, stabling areas and around building and undergrowth, apply as 2% space spray. Mist or fog at the rate of 26-40 L/ha. For use in ULV cold aerosol applicators, apply Malathion 50 EC at full strength at the rate of 0.85 - 1.25 L/ha.

1. Do not apply as a fog, aerosol, mist or space spray in residential areas.
2. Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, schools, parks, playgrounds, playing fields, public buildings or any other area where the general public including children could be exposed.

BOTTLE LABEL

**WILSON
MALATHION 50 EC**

EMULSIFIABLE CONCENTRATE

LIQUID INSECTICIDE

For the control of house flies, stable flies, horn flies, lice, mites, fruit flies, mosquitoes and fly maggots as well as many other insect pests on ornamental trees, fruit, vegetable and field crops.

COMMERCIAL

REGISTRATION NO. 16099 PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 50%

CAUTION

POISON

READ THE LABEL AND ATTACHED LEAFLET BEFORE USING

NET CONTENTS: 4 L (10 L, 20 L, 205 L)

Nu-Gro IP Inc.
10 Craig Street
Brantford, ON
N3R 7J1

DO NOT APPLY BY AIR.

DIRECTIONS: (For additional use instructions, refer to attached leaflet)

Young grasshopper control in pastures: Apply Malathion 50 EC at the rate of 1.0 - 1.5 L/ha in sufficient water for good coverage. Make thorough coverage applications. Repeat applications may be necessary. Pastures may be grazed immediately after treatment.

Mosquito larvae in standing water: Apply 1.1 L/ha of Malathion 50 EC (add to a suitable amount of water or oil as diluent) as a coarse droplet spray to fire, fish and farm ponds or dugouts. For use in water wholly confined within the property of the user and where there is no outflow beyond the property limits.

Fly control (house and stable flies): For the control of flies in and around buildings which house domestic animals, around yards, homes, processing plants, and other buildings, mix 2 L of Malathion 50 EC in 100 L of water. If the fly population is severe, add 4 kg of sugar to the spray. In most areas, adding molasses or sugar to the spray prolongs the insecticidal activity of Malathion and serves as a fly attractant. Apply the spray at the rate of 5 L/100 m² on painted surfaces and 10 L/100 m² on unpainted surfaces where flies congregate (walls, ceilings, stanchions, windows, fences, garbage cans, floors, manure piles, etc.). Repeat applications as necessary. Mosquitoes, flies (house and stable flies) and small flying insects for use outdoors such as farm yard areas (pens, manure piles, garbage areas), feed lots, pastures, stabling areas and around building and undergrowth, apply as 2% space spray. Mist or fog at the rate of 26-40 L/ha. For use in ULV cold aerosol applicators, apply Malathion 50 EC at full strength at the rate of 0.85 - 1.25 L/ha.

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Livestock and farm buildings: In back rubbers for dairy and beef cattle (including lactating animals): To control hornflies and lice on both dairy and beef cattle, provide a 2% Malathion solution (1 litre Malathion concentrate in 25 litre diesel or fuel oil). IMPORTANT - do not apply to animals under one month of age. Do not apply to livestock within 30 days of slaughter.

To spray beef cattle, non-lactating dairy cows, swine, sheep and goats: To control hornflies and lice, spray animals thoroughly with a solution of 1 L of Malathion 50 EC to 100 L of water (or 10 mL to 1 L of water). To control ticks on these animals, double the above concentration (i.e. 2 L to 100 L of water). Avoid treating eyes, ears and nose. Do not spray milking cows or apply to cows, beef cattle or swine within two weeks of freshening. Do not apply to swine, sheep and goats nursing young.

To spray barns, pig pens, poultry houses and outbuildings: To control flies, poultry lice, northern fowl mites and chicken red mites, spray walls or paint roosts with a mixture of 10-20 L of Malathion 50 EC per 1000 L of water.

To rid poultry of mites and lice: Mix 10 mL of Malathion 50 EC to 1 L of water and spray at the rate of 1 L to 20-30 birds to rid poultry of northern fowl mites and lice, and aid in the control of red mites. Repeat in 4 to 8 weeks. Do not apply within 1 week of slaughter. Avoid use in cold or drafty conditions.

Dairies, flour mills, food processing plants, for control of ants, booklice, carpet beetles, clothes moths, cockroaches, crickets, earwigs, flies, grain insects, lice, mites, mosquitoes, silverfish, spiders, springtails, and weevils:

Using a 0.5-2% concentration, apply a wet spray to surface such as window sills, walls, or areas where insects gather. Avoid misting. Repeat as necessary. Do not contaminate food or utensils, food should be removed from area or adequately covered before spraying. DO NOT apply while food processing plants are operating. Surfaces subject to direct contact with food should be thoroughly cleaned to remove insecticide residue and dead insects after spraying.

Caution: Wait 14 days before using Malathion 50 EC on freshly whitewashed surfaces. Do not use in milk rooms. Avoid contamination of feed and food products, drinking fountains and feed troughs. Remove lactating animals and calves under 1 month of age from buildings before treating.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Avoid inhaling spray mist. Avoid contact with skin, eyes and clothing. Avoid contamination of food and feed. Do not contaminate drinking troughs or utensils. Wash after handling or using. Avoid contamination of ponds, lakes, streams and other bodies of water which contain fish life or which may be used for irrigation or domestic purposes. Do not use in milk rooms. Remove lactating animals and calves under 1 month of age from buildings before treating. Do not apply oil-based sprays to ornamentals as injury may occur. In meat packing plants or food processing plants, only spray when plant is NOT in operation. No exposed meat or food products should be left in the room. Cover food handling equipment. Any treated surfaces that may contact meat or food products should be washed and rinsed thoroughly with potable water after spraying and before reuse for food processing. Clean up dead insects. This product contains a petroleum distillate that is 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.

FIRST AID: **If in eyes,** flush with plenty of water for 15 minutes. **If on skin,** wash with soap and water. This product contains petroleum distillates. **If swallowed,** DO NOT induce vomiting. Call a doctor or contact a poison control centre immediately. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Malathion is a cholinesterase inhibitor. Atropine is antidotal.

DISPOSAL: Triple or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for use. Dispose of the container in accordance with provincial requirements. For information on 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 clean-up of spills.

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.

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 arising from the use or handling of this product and accepts the product on that condition.

PAMPHLET

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Ornamentals: To control oyster shell scales, mix 1.25 - 2.5 L/ha of Malathion 50 EC in 1000 L of water. Apply when scale crawlers have settled on foliage. **To control aphids, leafhoppers, young grasshoppers, thrips, spider mites, four-lined leaf bugs, codling moths, mealybugs, whiteflies, native scale, Japanese beetles, tarnished plant bugs, lace bugs, European pine shoot moths,** mix 2 L of Malathion 50 EC in 1000 L of water and treat thoroughly. **For spruce budworm, tent caterpillars, birch leaf miners, boxwood leaf miners, bagworms,** mix 2.5 L of Malathion 50 EC in 1000 L of water. **To control Pine needle scale,** mix 5 L of Malathion 50 EC in 1000 L of water. Apply when scale crawlers have settled on foliage. Repeat applications as necessary.

Note: Do not make applications on fruits and vegetables utilized for food within 7 days of harvest. Injury may occur on certain ferns, on some species of crassula, petunia, ilex, African violets and juniper.

Mushroom beds: To control mites, phorid flies, sciarid flies, mix 25 to 40 mL in 11 L of water and apply to an area of 100 m² immediately after picking. Repeat about twice per week, or as required.

Vegetables: Apply the concentration listed below for each crop using enough water in spray mixture to ensure thorough coverage. Repeat as necessary but not closer to harvest than listed below.

Crop	Pest	Rate	No. of applications	Days before harvest
Asparagus	Asparagus beetle	2.75 L/ha	1+	1
Carrots Radishes Parsnips	Aphids	1.1 - 2.75 L/ha	1+	7
Tomatoes	Spider mites, aphids	1.5 - 2.25 L/ha	1+	3
Peas	Pea aphid (Do not apply unless the foliage is dry.)	2.25 L/ha	1+	3
Beans	Mexican bean beetle, spider mites	1.5 - 2.15 L/ha	2+	3
Broccoli Cabbage Kale	Aphids	1.1 - 2.75 L/ha	1+	3 (Broccoli)
	Imported cabbage worm, cabbage looper	1.1 - 2.75 L/ha	1+	7 (Cabbage & Kale)
Brussels sprouts	Aphids	1.1 - 2.75 L/ha	1+	7

Crop	Pest	Rate	No. of applications	Days before harvest
Rutabagas	Aphids	1.1 - 2.75 L/ha	1+	3
Cucumbers Squash	Aphids, spider mites	2.25 L/ha	1+	3
Pumpkin Melons	Leafhopper on melon Do not apply Malathion to cucurbits unless plants are dry	2.25 L/ha	1+	3
Eggplant	Aphids, spider mites	1.1 - 2.75 L/ha	1+	3
Peppers	Aphids	1.1 - 2.75 L/ha	1+	3
Beets	Aphids	1.1 - 2.75 L/ha	1+	7
Potatoes	Aphids, leafhoppers	1.5 - 2.25 L/ha	1+	3
Onions (bulb & green)	Thrips	2.25 L/ha	1+	3
Spinach	Aphids	2.75 - 3.5 L/ha	1+	7
Field Lettuce	Aphids, Six spotted leafhoppers	1.5 - 2.25 L/ha	1+	7
Celery	Aphids, spider mites	2.75 - 3.5 L/ha	1+	7
Greenhouse lettuce	Aphids, armyworms, thrips, whiteflies	1.5 - 2.25 L/ha	1-2 only	7 (Head lettuce) 14 (Leaf)

Fruit Crops:

Crop	Pest	Rate per 1000 L of water	No. of Applications	Days Before Harvest
Apples	Woolly apple aphid	1.0 - 2.5 L	1+	3
	Bud moth	1.0 - 2.5 L	1+	3
	Green apple aphid, Rosy apple aphid	1.0 - 2.5 L	1+	3
	Mealybug	1.0 - 2.5 L	1+	3
	Clover mite, European red mite, two-spotted mite, yellow mite*	1.0 - 2.5 L	2+	3
	Codling moth, plum curculio	1.0 - 2.5 L	1+	3
	Red-banded leaf roller	1.0 - 2.5 L	2+	3
Malathion 50 EC may cause injury to McIntosh and Courtland varieties if spray is applied within 4 weeks of harvest. *Make at least 2 applications 10 - 12 days apart in summer.				
Apricots	European lecanium scale, soft brown scale, aphids	2.0 - 2.5 L	1+	7
Cherries	Black cherry aphid, fruit tree leaf roller	1.25 - 2.0 L	1+	3
	NB: Injury may occur on certain varieties of sweet cherries in British Columbia			
Grapes	Spider mites, leaf hoppers, mealybugs	2.0 L	1+	3
	NB: Injury may occur on Ribier grapes			
Peaches	Oriental fruit moth, plum curculio	1.0 - 2.0 L	2+	7

Crop	Pest	Rate per 1000 L of water	No. of Applications	Days Before Harvest
Pears	Mites, pear psylla, mealybugs	1.0 - 2.5 L	2+	3
	Codling moth, plum curculio, fruit tree leaf roller, red-banded leaf roller	1.0 - 2.5 L	1+	3
Plums	Mealy plum aphid, plum curculio	1.0 - 2.0 L	1+	3
Strawberries	Aphids	1.25 - 2.0 L	1+	3
	Adult strawberry root weevil (B.C. only)	2.5 - 3.75 L	2+	3
Raspberries	Thrips, leafhoppers, sap beetles	2.0 - 2.5 L	1+	1
	Adult bud weevil	2.0 - 2.5 L	1	--

Field crops:

Crop	Pest	Rate per 1000 L water	No. of applications	Days before harvest
Wheat Oats Rye Barley	Aphids, greenbug, winter grain mite	1.0 - 2.5 L/ha	1+	7
Alfalfa Clovers	Aphids, potato leafhopper, spider mites, alfalfa weevil larvae, spittlebug, young grasshoppers	2.0 - 2.5 L/ha	4+	7
Do not apply to crops in bloom NB: No application within 7 days of harvest or pasturing				
Tobacco	Aphids	1.0 - 2.0 L/ha	1+	7
Mustard Rape	Flea beetles, diamondback moth larvae	1.0 L/ha	1+	7
Lentils	Grasshopper	1.7 L/ha	2*	14
*Two applications with 7 day between applications. Ground application.				

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