

2011-5024  
2011-11-22

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Front

GROUP	1B	INSECTICIDE
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MALATHION 25W

WETTABLE POWDER INSECTICIDE

COMMERCIAL

CAUTION            POISON

READ THE LABEL AND BOOKLET BEFORE USING

REGISTRATION NO. 14656

PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 25%

LOVELAND PRODUCTS CANADA INC.

789 Donnybrook Drive

Dorchester, Ontario

N0L 1G5

1-800-265-4624

NET CONTENTS: 2 kg

09/05

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.** Hazardous if swallowed, inhaled or absorbed through 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 and before eating, drinking or smoking. Remove and clean contaminated clothing before re-use. Use a respirator when spraying crops in greenhouses or other enclosed areas. Do not contaminate feed, food, fertilizer, seed and like commodities. Do not spray any plants while in bloom. Avoid contaminating any water body. Wash treated food before eating.

If this pest control product 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).  
DO NOT APPLY BY AIR.

**FIRST AID: If swallowed**, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. **If on skin or clothing**, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If in eyes**, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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. Do not use 2-PAM.

**SYMPTOMS OF POISONING:** Headache, weakness, blurred vision, nausea.

**STORAGE** Store away from food and feed.

**DISPOSAL:**

1. Thoroughly empty the contents of the container into the application device.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. 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 clean-up 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.

Base

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Data Pak

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MALATHION 25W

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NET CONTENTS: 2 kg

09/05

## DIRECTIONS FOR USE

For best results apply when the temperature is 20°C or higher. Use sufficient volume of spray per hectare for good coverage of all plant parts. For tree fruits, approximately 3000 litres of dilute spray or an equivalent amount of material as a concentrate spray per hectare, for vegetables 1000 litres dilute spray per hectare. For proper timing of the application, follow the Provincial Spray Guides. Repeat at 10 - 12 day intervals or as necessary.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that MALATHION 25W Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to MALATHION 25W Insecticide and other Group 1B insecticide/acaricide. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides 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/acaricide resistance:

- Where possible, rotate the use of MALATHION 25W Insecticide or other Group 1B insecticides/acaricides with different groups that control the same pests in a field.
- Avoid application of more than the indicated number of sprays of MALATHION 25W Insecticide or other insecticides/acaricides in the same group in a season.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.
- Insecticide/acaricide 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 and to report suspected resistance, contact the Technical Service of United Agri Products at 1-800-265-4624 or [at www.uap.ca](http://www.uap.ca).

CROPS	INSECTS	RATE
APPLE	Codling Moth, Mites (European red, two-spotted, yellow clover). Aphids Mealy Bug, Red-banded leafroller, Plum Curculio, Tent Caterpillar.	2 - 5 kg per 1000 litres
PEAR	Aphids, Codling Moth, Fruittree leafroller, Mealy bugs, Pear Psylla (suppression only). Red banded leafroller, Plum Curculio, Tent Caterpillar.	2 - 5 kg per 1000 litres
PEACH, PLUM, CHERRY	Plum curculio, Mealy Plum aphid, Black cherry aphid.	2.5 to 3.75 kg per 1000 litres
STRAWBERRY	Leafrollers, Aphids, Strawberry Leafhoppers.	2.75 - 4.25 kg per hectare
RASPBERRY	Raspberry sap beetles, Rose chafer, Thrips, adult Bud weevil, Leaf-hoppers, Raspberry fruitworm.	4 - 5 kg per 1000 litres
CURRENT,- GOOSEBERRY	Spider mites, Thrips, Aphids, Leafhoppers, Currant fruit fly.	2 - 2.5 kg per 1000 litres
BLUEBERRY	Blueberry maggot, Cherry fruitworm, Cranberry fruitworm, Spider mites, Thrips, Aphids. For cranberry fruitworm, apply 2500 litres per hectare at egg hatch and repeat three times at intervals of 4 to 5 days.	2.25 kg in 1000 litres per hectare
ASPARAGUS	Asparagus beetle	5.5 kg per hectare
POTATO, TOMATO	Tomato russet mite, Spider mites, Aphids, Leafhoppers, Colorado Potato beetles.	2.75 - 4.25 kg per hectare
CELERY, GARLIC, LEEK, ONIONS (Bulb green), PEA, SHALLOT	Aphids, Pea weevil, Pea Moth, Leafhoppers, Spider mites,Thrips.	4.25 kg per hectare
BEANS, ENDIVE, FIELD LETTUCE (Leaf, Head). GREENHOUSE LETTUCE (Leaf, Head). SALISFY	Mexican Bean beetle, Spider mites, Aphids. On greenhouse lettuce use no more than 2 applications.	2.75 kg - 5.5 kg per hectare
BEET, BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CARROT, CAULIFLOWER, EGGPLANT, HORSERADISH, KALE, KOHLRABI, PAR- SNIP, PEPPER, RADISH, RUTA- BAGA, TURNIP	Imported Cabbage worm, Cabbage looper, Aphids, Pepper weevil (maggot).	2.25 kg - 5.5 kg per hectare
CUCUMBER, MELON, PUMPKIN, SQUASH	Aphids, Spider mites, Leafhoppers, Cucumber beetle. Do not spray unless foliage is dry.	4.25 kg per hectare (for melon 4 to 5.5 kg)
SPINACH	Leafminer, Aphids	5.5 to 7 kg per hectare

ORNAMENTAL TREES AND SHRUBS, FLOWERS (outdoors and in greenhouse)	Greenhouse whitefly, Aphids, Thrips, Mealy bugs, Spider mites. Apply at first appearance of pest. Repeat as needed. Do not apply on Crimson Maple.	2.5 to 5 kg per 1000 litres (in greenhouse) 30g/100m <sup>2</sup>
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MUSHROOMS: Phorid and Sciarid flies, mites. Mix 4 - 6 kg of MALATHION 25W in 1000 L of water. Apply 120 L of spray mixture per 1000 m<sup>2</sup> of bed surface immediately after picking and repeat about two times per week or as required but not later than two days before picking.

MUSHROOMS: Phorid and Sciarid flies. Spray or paint as needed on wooden surfaces to the point of run-off. Avoid spraying on the bed surface whenever the time of application or the volume of spray is different from the use pattern above. Mix 4-6 kg of MALATHION 25W in 1000 L of water.

DAYS BEFORE HARVEST: DO NOT APPLY TO CROPS WITHIN THE FOLLOWING PRE-HARVEST INTERVALS:

1 Day	Asparagus, blueberry, raspberry, beans
2 Days	Mushrooms
3 Days	Apple, cherry, plum, pear, currants, gooseberry, strawberry, broccoli, cucumber, eggplant, head lettuce (field grown), leeks, garlic, melon, green onion, pea, pepper, potato, pumpkin, shallot, squash, tomato.
7 Days	Peach, table beet, Brussels sprouts, cabbage, carrot, cauliflower, celery, endive, head lettuce (greenhouse), horseradish, parsnip, radish, salsify, spinach, turnip (rutabaga), kale, kohlrabi
14 Days	leaf lettuce (field grown)
21 Days	leaf lettuce (greenhouse)

HAZARDOUS PROPERTIES: Highly toxic to fish and bees. May cause injury to ornamentals (Crassula, Holly, African Violet, Petunia, Sabina and Canaerti Junipers, Boston - Maidenhair and Pteris ferns).

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Hazardous if swallowed, inhaled or absorbed through 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 and before eating, drinking or smoking. Remove and clean contaminated clothing before re-use. Use a respirator when spraying crops in greenhouses or other enclosed areas. Do not contaminate feed, food, fertilizer, seed and like commodities. Do not spray any plants while in bloom. Avoid contaminating any water body. Wash treated food before eating.

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DO NOT APPLY BY AIR.

FIRST AID: **If swallowed**, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. **If on skin or clothing**, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. **If in eyes**, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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. Do not use 2-PAM.

SYMPTOMS OF POISONING: Headache, weakness, blurred vision, nausea.

STORAGE Store away from food and feed.

DISPOSAL:

1. Thoroughly empty the contents of the container into the application device.
2. Make the empty container unsuitable for further use.
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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.

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This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

2014-1425  
2014-05-22

DATAPAK

GROUP **1B** INSECTICIDE

**EMERGENCY USE LABEL For Sale and use only in BC and ON for the control of Spotted Wing Drosophila on sweet cherries from June 1, 2014 to November 30, 2014.**

# **MALATHION 25W**

WETTABLE POWDER INSECTICIDE

COMMERCIAL

CAUTION POISON

READ THE LABEL AND BOOKLET BEFORE USING

REGISTRATION NO. 14656

PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 25%

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING  
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273

LOVELAND PRODUCTS CANADA INC.  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5  
1-800-328-4678

NET CONTENTS: 2 kg

## **GENERAL DIRECTIONS**

For best results apply when the temperature is 20° C or higher. Use sufficient volume of spray per hectare for good coverage of all plant parts. For sweet cherries, use a maximum of 1000 L water/ha. For proper timing of the application, the presence of adult flies should be determined through local monitoring. Repeat at 7-10 day intervals.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that MALATHION 25W Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to MALATHION 25W Insecticide and other Group 1B insecticide/acaricide. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides 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/acaricide resistance:

- Where possible, rotate the use of MALATHION 25W Insecticide or other Group 1B insecticides/acaricides with different groups that control the same pests.
- Avoid application of more than the indicated number of sprays of MALATHION 25W Insecticide or other insecticides/acaricides in the same group in a season.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.
- Insecticide/acaricide 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 and to report suspected resistance, contact the Technical Service, Loveland Products Canada Inc., 1-800-328-4678 or at [www.uap.ca](http://www.uap.ca).

## **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-328-4678 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

## **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

TOXIC to birds.

TOXIC to bees exposed to direct treatment, drift, or residues on flowering crops or weeds. DO NOT apply this product to flowering crops or weeds if bees are visiting the

treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (for example, sandy soil) and/or the depth to the water table is shallow.

## BUFFER ZONES

Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Airblast (Late growth stage)	Cherry	15	5	25	20

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

## DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

<b>DIRECTIONS FOR USE</b>  <b>SWEET CHERRIES</b> For foliar application only, using conventional ground application equipment. Ensure sufficient water volume is used to guarantee thorough coverage. Use a maximum of 1000 L of water per hectare. Timing of applications should be based on the presence of adult pest (flies), as determined by local monitoring. Consult extension specialists for timing. Treat when bees are absent from field.						
Crop	Pest	Rate product per 1000 L of water	Maximum No. of Applications	Application Interval	Days Before Harvest	Restricted entry interval
sweet cherry	Spotted Wing Drosophila ( <i>Drosophila suzukii</i> )	2.5-3.75 kg	3	7-10 days	3	12 hours

### PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.**

Harmful if swallowed. Avoid breathing spray mist. Avoid repeated or prolonged

contact with skin, eyes and clothing. Wash thoroughly. Avoid contamination of feed and foods. Wear long pants, long sleeved shirts and chemical-resistant gloves during mixing/loading, application, clean-up and repair. Chemical-resistant gloves are not required while operating groundboom sprayers. A chemical resistant hat is required while operating open cab airblast sprayers.

DO NOT use in buildings. Do not contaminate drinking troughs. 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. Use a respirator when spraying in closed areas. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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.

If this pest control product 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 website at [www.croplife.ca/](http://www.croplife.ca/).

#### **FIRST AID**

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### **TOXICOLOGICAL INFORMATION**

Malathion is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with

atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

Contains petroleum distillate – vomiting may cause aspiration pneumonia.

**STORAGE:** Store away from food and feed.

**DISPOSAL**

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