

2011-5024
2011-11-22

FRONT

GROUP	1B	INSECTICIDE
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MALATHION 85E

COMMERCIAL INSECTICIDE

WARNING POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO. 8372
PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 85%

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
1-800-265-4624

NET CONTENTS: (1, 4, 5, 10, 20 Litres)

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. 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. 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. Use a respirator when spraying in closed areas.

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/.

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

Symptoms of poisoning – headache, fatigue, sweating, giddiness, blurred vision, nausea, abdominal cramps, salivation, vomiting, diarrhea, tightness of chest, difficulty in

breathing. May cause cholinesterase inhibition. Atropine is antidotal. Do not use 2-PAM for malathion poisoning. Full atropinization should be maintained for at least 24 hours from the beginning of treatment. Contains a petroleum solvent.

DISPOSAL

1. Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

DATAPAK

GROUP **1B** INSECTICIDE

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GENERAL DIRECTIONS

MALATHION 85E is generally effective in controlling the insects and mites listed below. MALATHION 85E will work more effectively if the temperature is 20° C or more or when temperatures will reach or exceed this minimum. Use the rate of MALATHION 85E in the full volume of water. Add the specified amount of MALATHION 85E to the water in the spray tank and agitate well for 3 to 5 minutes before spraying.

FOR GROUND APPLICATION: dilute with water to 1000 L/ha unless otherwise stated.
FOR AERIAL APPLICATION: unless otherwise stated, dilute with water to minimum spray volume of 30 L/ha when aerial application is specified.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that MALATHION 85E Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to MALATHION 85E 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 85E 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 85E 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, United Agri Products Canada Inc., 1-800-265-4624 or at www.uap.ca.

AERIAL APPLICATION INSTRUCTIONS

Use only where aerial application is indicated on this label.

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.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Do not apply to any body of water. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Avoid drifting of spray onto any body of water or other non-target areas. Specific 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). Use low nozzle pressure (Below 300 kPa). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray in winds exceeding 10 - 15 km per hour. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat. Do not allow drift onto sensitive areas such as water, urban and residential areas.

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 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 1-800-265-4624 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:

Volume: Apply the recommended rate in a minimum spray volume of 30 litres per hectare unless otherwise stated.

DIRECTIONS FOR USE

FRUIT CROPS

Apply by ground only.

CROPS	PESTS	mL product per 1000L (unless specified per hectare)	NO. OF APPLICATION	DAYS BEFORE HARVEST	NOTE REFERENCE NUMBER
Apples, Crab-apples	Wooly apple aphid	610	1+	3	
	Bud Moth	880	1+	3	1
	Green Apple Aphid Rosy Apple Aphid	610 – 880	1+	3	
	Mealybugs	610 – 1220	1+	3	1
	Clover mite European Red mite Two-spotted mite, *Yellow mite	610 – 1220	2+	3	
	Codling moth Plum curculio Scale crawlers	1220	1+	3	1
	Red-banded leaf roller	880 – 1220	2+	3	1
	MALATHION 85 E may cause injury to McIntosh and Courtland varieties if spray is applied within 4 weeks of harvest. *To control yellow mites, make at least 2 applications 10 - 12 days apart in summer.				
Apricots	Aphids, Codling moths Orange tortrix Scale insects	975 – 1220	1+	7	1
Blackberry, Boysenberry, Dewberry, Loganberry	Aphids, Leafhoppers, Rose Chafers, Spider mites, Thrips	610 – 975		7	
Blueberries	Aphids, Cranberry fruitworm, Leafhoppers, Leafrollers, Rose chafers, Spider mites, Strawberry root weevil adults (BC only), Thrips	1000 in 1000L/ha	1+	1	4
	Blueberry maggot adults Cherry fruitworm	550 in 1000L/ha	1+	1	
Cherries	Black Cherry Aphid, Fruit Tree Leaf Roller	610-880	1+	3	
	Injury may occur on certain varieties of sweet cherries in British Columbia.				
Cranberry	Blackheaded fireworms, Cranberry fruitworm, Leafhoppers, Meadow spittle bugs (nymphs)	610-1100		3	

Grapes	Aphids, Leafhoppers, Mealy bugs, Scale crawlers, Spider mites	880		3	
	Injury may occur on Ribier Grapes				
Grape Vines (Nursery stock)	Grape phylloxera				2
Peaches	Oriental fruit moth Plum curculio, Mites	490-855	2+	7	3
Pears	Aphids, Leafrollers, Mealybugs, Pear Psylla (suppression only), Pear slugs, Scale crawlers, Spider mites, Tent caterpillars	610-1220	2+	3	3
	Codling moth, Fruit tree leaf roller, Plum curculio, Red-banded leaf roller	1220	1+	3	
Plums Prune Plums	Mealy plum aphid, Spider mites	490-855	1+	3	
	Plum curculio	610-880	1+	3	
Raspberries	Leafhoppers, Sap beetles, Thrips	880/ha	1+	1	
	Bud weevil adults	1345/ha		1	
Strawberries	Aphids, Leafhoppers, Spider mites, Strawberry leafrollers	975/ha	1+	3	
	Strawberry root weevil adults (B.C. only)	1345/ha	2+	3	

FRUIT CROPS NOTES

Reference Numbers

1. Repeat as necessary or at intervals of 10-12 days.
2. Use 0.1 – 0.2% (120 – 240 mL/100L) solution. Remove excess soil from roots and dip in solution for 5 minutes. Two hundred and twenty five (225) litres treats about 500 plants.
3. Repeat as required or at intervals of 10 to 12 days.
4. For cranberry fruitworm, apply 2500 litres per hectare at egg hatch and repeat three times at intervals of 4 to 5 days.

VEGETABLES

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

Apply by ground only.

CROPS	PESTS	mL product per hectare	NO. OF APPLICATION	DAYS BEFORE HARVEST	NOTE REFERENCE NUMBER
Asparagus	Asparagus beetle	1220	1+	1	1
Beans	Aphids, Leafhoppers, Mexican bean beetle, Spider mites	735-1345	1+	3	
Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Kale, Kohlrabi	Aphids, Cabbage loopers, Imported cabbageworm	535-1345	1+	3	
Beets (table)	Aphids, Leafhoppers, Leafminers, Spider mites	535-1345		7	
Carrots	Aphids	880-975	1+	7	
Celery	Aphids, Six-Spotted leafhoppers, Spider mites	1100		7	
Collards, Swiss Chard, Watercress	Aphids, Leafminers	1100		7	
Cucumbers, Pumpkins, Squash	Aphids, Spider mites, Leafhoppers Do not apply Malathion to cucurbits unless plants are dry.	880	1+	3	
Dandelion	Aphids	1100-1345		7	
Eggplant	Aphids, Spider Mites	535-1345		3	
Endive	Aphids, Spider Mites	535-1345		7	
Garlic	Aphids, Thrips	535-1345		3	
Horseradish	Aphids	535-1345		7	
Leek, Shallot	Aphids, Thrips	1100-1345		3	
Lettuce (Field)	Aphids, Cabbage loopers, Spider mites, Six Spotted Leafhoppers	735-1345	1+	14 (leaf) 3 (head)	
Lettuce (Greenhouse)	Aphids, Armyworms, Greenhouse Whiteflies, Spider Mites, Thrips,	735-1345	1+	7	2
Melons	Aphids,	1100-1345		3	

	Cucumber beetles, Leafhoppers, Leafminers, Spider mites Do not apply Malathion to cucurbits unless plants are dry.				
Mushroom Beds & Houses	Mites, Phorid flies, Sciariid flies	12-20		2	3
Onions (Bulb and Green)	Thrips	1100	1+	3	
Parsley	Aphids	1100-1345		20	
Parsnip	Aphids	535-1345	1+	7	
Peas	Pea aphid, Leafhoppers, Pea weevil, Spider mites	1100	1+	3	4
Peppers	Aphids, Leafhoppers, Maggots, Pepper weevil	610-1345	1+	3	
Potatoes	Aphids, Colorado potato beetle, Leafhoppers, Spider mites	735-1100	1+	3	
Radishes	Aphids, Flea beetles, Leafhoppers	535-1345	1+	7	
Rutabagas Turnips	Aphids, Cabbage looper, Imported cabbageworm, Spider mites	535-1345	1+	3	
Salsify	Aphids	535-1345		7	
Spinach	Aphids	1345	1+	7	
Tomatoes	Aphids, Cucumber beetles, Leafhoppers, Leafminers, Spider mites, Tomato russet mites	735-975	1+	3	

VEGETABLES NOTES

Reference Numbers

1. Repeat as necessary.
2. Repeat if necessary but use no more than two applications.
3. Use 12-20 mL MALATHION 85 E in 11 litres per 100 m². Apply immediately after picking. Repeat about twice a week or as required. The same concentration of MALATHION 85 E may be sprayed or painted on wooden surfaces in mushroom houses to the point of runoff as needed. Avoid spraying on bed surfaces when time of application differs from that recommended for beds.
4. Do not apply unless foliage is dry.

FIELD CROPS

May be applied by ground or air as indicated.

CROPS	PESTS	mL product per hectare	NO. OF APPLICATION	DAYS BEFORE HARVEST	NOTE REFERENCE NUMBER
Alfalfa	Alfalfa weevil larvae, Aphids, Grasshoppers, Leafhoppers, Lygus bugs, Spider mites, Spittle bugs (adult)	1100-1345	1+	7	1, 2,12
	Alfalfa blotch leafminer	1345		7	3
Canary grass (for seed)	Aphids	685		14	4,12
Clover	Aphids, Grasshoppers, Leafhoppers, Spider mites, Spittle bug	1100-1345	1+	7	5
Canola Mustard Rape	Diamondback moth larvae	270-415		7	7,12
	Flea beetles, Grasshoppers	535-855		7	7,12
Corn (Grain or Forage)	Earworms, European corn borer	1100-1345		5	6
Flax	Grasshoppers	535-855		7	7,12
Grain Crops Barley Oats Rye Wheat	Armyworms, English grain aphids, Grasshoppers, Greenbugs, Winter grain mites	1100-1345	1+	7	12
	Cereal leaf beetle	1075	1+		12,13
Lentils	Grasshoppers	830		14	8,12
Peas (Field)	Aphids, Leafhoppers, Maggots, Pea weevils	1100	1+	3	
Sugar beets	Flea beetles	535			9
Sweet Clover	Sweet clover weevils	735-1220			10,12
Tobacco	Aphids, Leafhoppers, Tobacco hornworms	735-975	1+	7	
Wild rice	Wild riceworm	1100	1+	10	11,12
	For cultivated wild rice. Use knapsack sprayer or similar applicator. Limitation: Do not use on fish-bearing waters such as rivers or lakes.				

FIELD CROPS NOTES

Reference Number

1. Do not apply to alfalfa in bloom. Apply when 75% of foliage shows feeding damage.
2. Repeat as necessary.

3. Apply as soon as pinholes in leaves are noted, usually mid to late May. A repeat application may be necessary.
4. Apply when more than 50 aphids per canary seed head between heading and soft dough stage.
5. Do not apply to clover in bloom.
6. Apply when 10% of ears show silk. Repeat at 3 to 5 day intervals until 4 to 5 applications are made. Check with local agricultural authorities for correct timing.
7. Treat when bees are absent from field and temperature is above 18 degrees C.
8. Two applications, with 7 day intervals between.
9. Apply at the 3 - 5 leaf stage when insects or damage first appears.
10. Spray field margins of first year clover in late summer or early fall when migration of adults is occurring. Remove cattle while treating; cattle may return immediately after spraying.
11. For control in nonfish-bearing waters such as wild rice paddies - one application/year.
12. May be applied by air.
13. Apply when cereal leaf beetle larvae reach 2 to 3 per stem.

NOTE TO USE R: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for this product for the use described below were developed by persons other than United Agri Products Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. United Agri Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold United Agri Products Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described below.

GRAPES

For foliar application only, using conventional ground application equipment. Ensure sufficient water volume is used to guarantee thorough coverage. Use a minimum of 500 L of water per hectare. Apply prior to harvest when treatment thresholds have been reached, as determined by local monitoring. Consult extension specialists for timing.

Crop	Pest	Rate per Ha	Maximum No. of Applications	Days Before Harvest
Grapes	Adult Multicoloured Asian Lady Beetle	880 mL	1	3

YOUNG GRASSHOPPER CONTROL IN PASTURES AND RANGELAND

Use 830mL of MALATHION 85 E per hectare of pasture range. For pasture and range grass repeat as necessary. Do not apply to fields occupied by dairy animals, but may be grazed or harvested on the day of application. In alfalfa, use at the rate of 975 -1465mL per hectare. Repeat treatments as necessary. Do not apply within 7 days of harvest. Do not apply when crop is in bloom. Apply when 75% of alfalfa foliage shows feeding damage.

ORNAMENTALS

Thorough, full coverage applications should be made and repeated as necessary. Apply at first appearance of pests.

	mL product in 1000L of water/ha
Aphids, mealy bugs, spider mites	880
Oyster shell scale*	610
Lace bug	610-880
Leafminers	1220
Bagworms	1220
Tent caterpillar	1220
Pine needle scales*	2445
Spruce Budworm	2930
Four-lined leaf bug, leafhoppers, tarnished plant bug, thrips, European pine shoot moths, Sawflies	880

*Apply when scale crawlers have settled on foliage.

NOTE: Injury may occur on African violet, Boulan fern, Crassula, Ilex, Juniper (Canaerti & Sabina), Maidenhair fern, Petunia, Pteris fern, and young plants.

GREENHOUSE ORNAMENTALS

Carnation, Chrysanthemum, Geranium, Rose, Snapdragon. Foliar Spray - to control Aphids, Mealybugs, Spider mites, Thrips, Whitefly. Mix 7.5 mL of MALATHION 85 E with sufficient water to cover 100 m². Repeat as necessary.

MOSQUITO LARVAE IN STANDING WATER

Apply 535 mL/ha of MALATHION 85 E (added to a suitable amount of water or oil as dilutant) as a coarse droplet spray to fish, 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)

MALATHION 85 E can be used in sprays alone or baited with sweetening agents to attract flies to their death. For the control of flies in and around buildings which house domestic animals, around yards, homes, processing plants, and other buildings, mix 975 mL of MALATHION 85 E in 100 L of water. If the fly population is severe, also add 4 kg of sugar to the spray. In most areas adding molasses or sugar to the spray prolongs the insecticidal activity of MALATHION 85 E and serves as a fly attractant. Apply the

spray at the rate of 5 L/100 m² on painted surfaces or 10L/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 or 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 buildings 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 85 E at full strength at the rate of 415-550 mL/ha.

DO NOT APPLY AS A FOG, AEROSOL, MIST OR SPACE SPRAY IN RESIDENTIAL AREAS

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 areas where the general public including children could be exposed.

LIVESTOCK AND FARM BUILDINGS

IN BACKRUBBERS FOR DAIRY AND BEEF CATTLE (including lactating animals):

To control hornflies and as an aid to controlling lice on both dairy and beef cattle, provide a 2% mixture of MALATHION 85 E by mixing 490mL MALATHION 85 E with 25 litres of diesel or fuel oil. **IMPORTANT: DO NOT** apply to animals under one month of age. Do not apply to cattle 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 490 mL of MALATHION 85 E to 100 litres of water (or 50 mL to 10 L of water). To control ticks on these animals, double the above concentration i.e. 980 mL to 100 litres of water. **DO NOT** apply to adult animals nursing young. Avoid contamination of feed and water troughs. Avoid treating eyes, ears and nose.

CAUTION: Do not spray milking cows, beef cattle or swine within 2 weeks of freshening, or 30 days of slaughter.

CAUTION: Wait 14 days before using MALATHION 85 E on freshly white-washed 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.

TO SPRAY BARN, PIG PENS, POULTRY HOUSES, OUTBUILDINGS

To control flies, poultry lice, Northern Fowl Mites and Chicken Red Mites, spray walls or paint roosts with a mixture of 60-95 mL of MALATHION 85 E to 10 litres of water. To rid poultry houses of ticks, mix 245 mL of MALATHION 85 E to 10 litres of water and spray liberally on walls, ceilings and into all crevices. Spray roosts, floor litter, cages and shipping crates, also spray poultry houses from the outside, paying special attention to doors, windows, manure heaps, etc. Repeat as necessary. Allow 14 days before applying to freshly whitewashed surfaces.

TO RID POULTRY OF MITES AND LICE

Mix 45-60 mL of MALATHION 85 E to 10 litres of water and spray at the rate of 10 litres per 200 to 300 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.

HOGS

To control Sarcoptic mange mites, make a 1% spray by mixing 100 mL of MALATHION 85 E with 10 litres of water. Apply 2 litres of the diluted spray per animal. Repeat in 12 days, if necessary. Do not apply to animals under one month of age. Do not apply to adult animals nursing young. May be used up to time of slaughter.

FLOUR MILLS, GRAIN ELEVATORS, GRANARY BINS (EMPTY) AND GRAIN BOX CARS

Pests controlled: Confused flour beetles, flat grain beetles, granary weevils, grain mites, Indian meal moths, lesser grain borers, red flour beetle, rice weevils, rusty grain beetles, saw toothed grain beetles.

Spray Mixture: 490 mL of MALATHION 85 E in either 15 litres of water or 15 litres of deodorized kerosene (The deodorized kerosene solution should be made up of 4 parts kerosene type solvent plus one part aromatic hydrocarbon type solvent).

Directions for Use: Before storing new grain, clean premises thoroughly, including floors, walls, under and behind machinery or equipment. Remove and burn all sweepings and debris. Reclean before retreatment. Maintain good sanitation at all times. Spray to the point of run-off or at the rate of approximately 5 litres of spray mixture per 100 m². Use spray equipment and nozzles that will produce a coarse spray. This same spray should be applied around the outside of bins and elevators to help prevent reinfestation.

Flour Mills: Spray floors, walls, ceilings, under and behind milling machines, bins and areas where insects may hide and breed. Pay particular attention to cracks and crevices from which insects emerge. Clean and spray floors and walls of the warehouse before stockpiling of sacked or boxed flour or sack bundles.

Grain Elevators, Granary Bins: Whenever these areas become empty, clean and then spray. Every three weeks, clean and spray the work floor, walls and surrounding areas.

Grain Box Cars: Before loading, clean, then starting at a point on the car wall approximately 60 cm above the estimated sack line level, spray the walls and floor, using 4-5 litres of spray per car. Allow sprayed cars to stand empty with door open until the spray has thoroughly dried. Line the walls and floor of the car with kraft paper and then load.

PRECAUTIONS

Use a respirator when spraying in closed areas. Do not apply directly to grain or flour. Application must be made by an experienced or trained person. Wait until spray has thoroughly dried before storing grain in treated areas. MALATHION 85 E must be

applied only to empty grain holding facilities. It must not be sprayed directly on grain milling equipment while the mill is in operation.

STORED GRAIN PROTECTION

WHEAT, RYE, CORN, BARLEY AND OATS:

For the protection of stored grain such as wheat, oats, corn, rye, or barley against confused flour beetle, granary weevil, rice weevil, saw-toothed grain beetle, flat grain beetle, red flour beetle, rusty grain beetle, lesser grain borer, Indian meal moth and grain mites, apply as follows:

WHEAT, RYE AND CORN	10 mL/1000 kg in 10 to 20 L water
BARLEY	12 mL/1000 kg in 10 to 20 L water
OATS	17 mL/1000 kg in 10 to 20 L water

Grain treated with MALATHION 85 E should not be offered for sale until seven (7) days after treatment. To protect stored grain from attack by Indian meal moth, apply MALATHION 85 E to the surface of clean or uninfested grain at the rate of 295 mL in 5 - 10 L of water per 100 m² of grain surface area. Apply spray evenly over the surface of the grain and rake to a depth of 15 cm. Apply immediately after grain is loaded into storage. Any of the standard spray applicators on the market which can be calibrated to deliver a known volume of liquid are suitable for applying MALATHION 85 E.

For small amounts of grain in farm storage, where special application equipment is not available, any type of low pressure sprayer holding 5 L or more can be used. The spray can be applied to the grain stream as the grain is being elevated into storage. The first step would be to test spray in a tank of water to determine the rate at which the sprayer is discharging - then regulate the flow of grain to get the proper amount of spray.

MUNICIPAL DUMPS, REFUSE AREAS, SEWAGE LINES

To control cockroaches apply 30 mL of MALATHION 85 E in one litre of oil or water to wet the area requiring treatment. Repeat as necessary.

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. 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. 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. Use a respirator when spraying in closed areas.

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/.

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

Symptoms of poisoning – headache, fatigue, sweating, giddiness, blurred vision, nausea, abdominal cramps, salivation, vomiting, diarrhea, tightness of chest, difficulty in breathing. May cause cholinesterase inhibition. Atropine is antidotal. Do not use 2-PAM for malathion poisoning. Full atropinization should be maintained for at least 24 hours from the beginning of treatment. Contains a petroleum solvent.

DISPOSAL

1. Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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

GROUP	1B	INSECTICIDE
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MALATHION 85E

COMMERCIAL INSECTICIDE

WARNING POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO. 8372
PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 85%

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
1-800-265-4624

NET CONTENTS: (1, 4, 5, 10, 20 Litres)

DATAPAK

GROUP **1B** INSECTICIDE

EMERGENCY USE LABEL

**For Sale and use in BC, AB, ON, QC and NS only
for the control of Spotted Wing Drosophila, from
June 1, 2011 to November 30, 2011.**

MALATHION 85E

COMMERCIAL INSECTICIDE

WARNING POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO. 8372
PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 85%

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
1-800-265-4624

NET CONTENTS: (1, 4, 5, 10, 20 Litres)

GENERAL DIRECTIONS

MALATHION 85E will work more effectively if the temperature is 20° C or more or when temperatures will reach or exceed this minimum. Use the rate of MALATHION 85E in the full volume of water. Add the specified amount of MALATHION 85E to the water in the spray tank and agitate well for 3 to 5 minutes before spraying.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that MALATHION 85E Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to MALATHION 85E 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 85E 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 85E 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, United Agri Products Canada Inc., 1-800-265-4624 or at www.uap.ca.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-265-4624 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:

DIRECTIONS FOR USE

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for this product for the use described below were developed by persons other than United Agri Products Canada Inc.

United Agri Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crop listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold United Agri Products Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the use described below.

DIRECTIONS FOR USE

STONE FRUITS

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 pests (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
Stone Fruits (apricot, sweet and sour cherry, nectarine, peach, plum, prune plums)	Spotted Wing Drosophila (<i>Drosophila suzukii</i>)	610-855 mL	2	7-14 days	3	12 hours

DIRECTIONS FOR USE

BERRY CROPS

For foliar application only, using conventional ground application equipment. Ensure sufficient water volume is used to guarantee thorough coverage. Use a maximum of 500 L of water per hectare. Timing of applications should be based on the presence of adult pests (flies) as determined by local monitoring. Consult extension specialists for timing. Treat when bees are absent from field.

Pest	Crop	Rate product per 1000 L	No. of Applications	Application Interval	Days Before Harvest	Restricted entry interval
Spotted Wing Drosophila (<i>Drosophila suzukii</i>)	Strawberry	1000 mL	2	7-14 days	3	12 hours
	Blueberry	1000 mL	3	7-14 days	2	12 hours
	Raspberry	1000 mL	2	7-14 days	1	12 hours
	Currant	1000 mL	2	7-14 days	3	12 hours
	Gooseberry	1000 mL	2	7-14 days	3	12 hours
	Blackberry	1000 mL	2	7-14 days	1	12 hours
	Grape	880 mL	1	7-14 days	3	Girdling

Restricted entry interval

12 hours

12 hours

12 hours

12 hours

12 hours

12 hours

Girdling

and cane turning: 2 days Hand harvesting, training, tying, leaf pulling, hand pruning, thinning: 1 day. All other activities 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. 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. 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. 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.

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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.

DISPOSAL

1. Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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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.