

2024-04-19
2023-2399

[Container label]

GROUP	1B	INSECTICIDE
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FYFANON 50% EC

Emulsifiable Concentrate Insecticide

COMMERCIAL-AGRICULTURAL

ACTIVE INGREDIENT: Malathion 500g/L

REGISTRATION NO. **4590**
PEST CONTROL PRODUCTS ACT

CAUTION

POISON



READ THE LABEL AND ACCOMPANYING BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

IN CASE OF EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT, 1-800-331-3148.
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Registrant:
FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

Expiry Date: yyyy-mm-dd
Lot # XXXX-XXX-X

**This product is not to be sold or applied
after the expiry date above.**

NET CONTENTS: up to Bulk

FYFANON and FMC are trademarks of FMC Corporation or an affiliate

PRECAUTIONS:**KEEP OUT OF REACH OF CHILDREN**

- Harmful by swallowing, inhalation or skin contact
- Avoid breathing spray mist.
- Avoid contact with skin.
- Wash thoroughly after handling.
- Change contaminated clothing.
- Do not contaminate food or feed products and drinking troughs
- Avoid contamination of ponds, lakes, streams and other bodies of water which may be used for irrigation or domestic purposes.
- Do not use in dwellings or in milk rooms.
- Use respirator when spraying in closed areas.

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 contact FMC at www.fmccrop.ca.

This product contains a petroleum distillate that 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.

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 INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further 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 a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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

TOXICOLOGICAL INFORMATION:

Symptoms of poisoning include headache, weakness, sweating, giddiness, blurred vision, nausea, abdominal cramps, diarrhea and discomfort in the chest.

Antidote: If accidental poisoning occurs, atropine is antidotal. Pralidoxime chloride (2-PAM: PROTOPAM chloride) may be effective as an adjunct to atropine. For severe cases, administer 4 or 8 mg of atropine sulfate intravenously at intervals of 10 to 15 minutes until atropinization is achieved. For less severe cases, administer 2 to 4 mg. intramuscularly at 30-minute intervals. When signs of full atropinization appear, reduce dosage and frequency to 1 mg every 2 to 4 hours. Full atropinization should be maintained for at least 24 hours from beginning of treatment. For children administer proportionately lower dosages based on body weight.

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. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL PRECAUTIONS

- TOXIC to aquatic organisms. Observe spray 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.

STORAGE

Store this product away from food or feed.

Do not contaminate water by storage.

Keep in original container during storage. Isomalathion, a toxic metabolite of malathion, forms when malathion product is stored at elevated temperatures or for extended periods of time.

Malathion product must be stored in a cool (<20-23°C) dry, well-ventilated place away from seed, fertilizer or other pesticides. Do not use after the expiry date given on the primary panel.

USE PRECAUTIONS

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.

Personal Protective Equipment

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.

Stored grain uses (wheat, oats, corn, rice, rye, and barley)

Limit the amount of active ingredient handled per day to 865 kg per person (approx. 28,800 metric tons at a rate of 30 g a.i./ton)

Uses for dwelling foundations

Handwand Equipment: Limit the amount of active ingredient handled per day to 6 kg per person (approx. 190 L at a rate of 32.5 g a.i./L).

Wear chemical-resistant coveralls over long pants, long sleeved shirts, chemical-resistant gloves, and chemical-resistant footwear during mixing/loading, application, clean-up and repair.

When used in residential areas, outdoor use only.

Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, public buildings or any other areas where the general public including children could be exposed.

Uses for outside foundations

Treatment of outdoor structural foundations only, and the 1 m wide path surrounding the foundation.

DISPOSAL PROCEDURE: (Returnable-Refillable Containers)

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be re-filled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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.

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

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[Insert]

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NOTICE TO USER:

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FOR AERIAL APPLICATION: A minimum of 30 L/ha of spray solution per hectare is specified. Use a boom pressure of 235 kPa or less. Avoid placing nozzles where spray will enter wing tip vortices.

AERIAL APPLICATION INSTRUCTIONS

Use only where aerial application is indicated on this label. Apply only by fixed-wing or rotary aircraft equipment that 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. This product cannot be applied by any type of aerial equipment, where no rate for aerial application appears for the specific use. 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 to allow for complete and even crop coverage. 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*. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. 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 235 kPa). Do not apply during periods of dead calm or when wind velocity and directions pose a risk of spray drift. Do not spray in winds exceeding 10 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 spray to drift onto sensitive areas such as water, urban and residential areas.

Spray Buffer zones: Appropriate spray buffer zones should be left between the edge of the treated field and environmentally sensitive areas such as wetlands, sloughs, rivers, houses and farm buildings and other crops grown for food.

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/loader must wear chemical resistant gloves, coveralls and goggles or face shields during the 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 and cockpit and vehicle cabs must be decontaminated regularly. Do not use human flaggers.

Product Specific Precautions: If you have questions. Call the manufacturer at 1-800-331-3148 or obtain other 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 of spray volume of 30 litres per hectare unless otherwise stated.

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.

DO NOT allow releases, effluent or runoff from greenhouses or mushroom houses containing this product to enter lakes, streams, ponds or other waters.

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.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 10 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Spray Buffer zones

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

The spray 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
Field sprayer	canary grass, mustard, sugar beet	1	1	4	2
	Mustard (condiment type only), flax, canola, tobacco, tomato, onion, pea, potato, pumpkin, sweet clover, clover, cauliflower, collards, cranberry, dandelion, endives, garlic, horseradish, kohlrabi, leek, melon, parsley, salsify, shallot, Swiss chard, watercress, pasture and rangeland, cucumber, eggplant, kale, lettuce, asparagus, bean, beet, broccoli,	2	1	5	3

	Brussel sprout, cabbage, carrot, radish, squash, turnip, alfalfa, barley, rye, wheat, pepper, rutabaga, lentil, wild rice					
	Celery, spinach		3	1	5	3
	Corn, strawberries, blackberry, boysenberry, dewberry, loganberry		3	1	10	4
Airblast	Blackberry, boysenberry, dewberry, loganberry, grape	Early growth stage	30	20	45	35
		Late growth stage	20	10	35	25
	Prune plum	Early growth stage	35	20	45	35
		Late growth stage	25	15	35	25
	Apples, apricots, peach, plum, pear, crabapples	Early growth stage	35	25	50	40
		Late growth stage	30	15	40	30
Aerial	Canary grass	Fixed wing	15	4	85	20
		Rotary wing	10	1	50	15
	mustard, flax, canola	Fixed wing	15	5	125	30
		Rotary wing	15	3	65	20
	Lentil	Fixed wing	20	5	150	35
		Rotary wing	15	5	75	25
	Wild rice	Fixed wing	25	5	150	50
		Rotary wing	20	5	75	30
	Sweet clover	Fixed wing	30	10	150	50
		Rotary wing	20	5	80	30
	Alfalfa, barley, oats, rye, wheat	Fixed wing	45	10	175	70
		Rotary wing	25	10	95	40

TANK MIXES:

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact FMC of Canada Limited at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that FYFANON 50% EC contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to FYFANON 50% EC 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 FYFANON 50% EC or other Group 1B insecticides

- with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that is effective on the target pest 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 FMC at 1-800-331-3148 or at www.fmccrop.ca

CROP	PEST	Amount of Fyfanon 50EC Per Hectare			PRE-HARVEST INTERVAL (PHI), Maximum # of applications/year, Minimum interval between applications, & COMMENTS
		1000 L water	10L water		
Alfalfa (2 applications per cut to max 4 per year)	Alfalfa weevil larvae, aphids, grasshoppers, leafhoppers, lygus bugs, spittlebugs (adult)	2.25-2.50L	-	-	PHI is 7 days. Do not apply to alfalfa in bloom. Apply when 75% of foliage shows feeding damage. Ground or aerial application.
	Spider mites	2.25-2.50L			PHI is 7 days. Do not apply to alfalfa in bloom. Apply when 75% of foliage shows feeding damage. Ground application only.
	Alfalfa Blotch Leaf Miner	2.75 L in a minimum of 275 L water			PHI is 7 days. Do not apply to alfalfa in bloom. Apply when 75% of foliage shows feeding damage. Ground application only. Maximum number of applications: 2 applications per cut to max 4 per year Minimum interval - 14 days
Apple, Crab Apple	eye-spotted budmoth, codling moths, aphids, mealybugs, mites, plum curculios, psyllids, tent caterpillars, red-banded leafroller	-	1.0-2.5L	10-25mL	PHI is 3 days. Maximum number of applications per year – 2x Minimum interval – 10 days
Apricot	aphids, codling moths, orange tortrix, scale insects	-	2.0-2.5L	20-25mL	PHI is 7 days. Maximum number of applications per year – 2x Minimum interval – 10 days
Asparagus	asparagus beetle	2.75L	-	-	PHI is 1 day. Maximum number of applications per year – 1x

Bean	aphids, leafhoppers, Mexican bean beetles, spider mites	1.5-2.75L	-	-	PHI is 1 day. Maximum number of applications per year – 2x Minimum interval – 7 days
Beet (table)	aphids, leafhoppers, leaf miners, spider mites	1.1-2.75L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Blackberry, Boysenberry, Dewberry, Loganberry	aphids, leafhoppers, rose chafers, spider mites, thrips	-	1.25-2.0L	15-20 mL	PHI is 7 days Maximum number of applications per year – 2x Minimum interval – 7 days
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Kale, Kohlrabi	aphids, cabbage loopers, imported cabbageworms	1.1 - 2.75 L	-	-	PHI is 7 days; 3 days for broccoli. Maximum number of applications per year – 1x
Canary grass (for seed)	aphids	1.4L	-	-	PHI is 14 days. Apply when more than 50 aphids per canary seed head between heading and soft dough stage. Ground or aerial application. Maximum number of applications per year – 2x Minimum interval – 14 days
Carrot	aphids, six-spotted leafhoppers	1.1-2.75L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Celery	aphids, six-spotted leafhoppers, spider mites	2.25L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Clover	aphids, grasshoppers, leafhoppers, spider mites	2.25-2.75L	-	-	PHI is 7 days. Do not apply to clover in bloom. Maximum number of applications per year – 2x Minimum interval – 14 days
Collards, Swiss Chard, Watercress, Parsley	Aphids	2.25-2.75L	-	-	PHI is 7 days; 20 days for parsley. Maximum number of applications per year – 1x
Corn (grain, forage)	earworms, European corn borers	2.25 - 2.75L	-	-	PHI is 5 days. Apply when 10% of ears show silk. Check with local agricultural authorities for correct timing. Maximum number of applications per year – 4x Minimum interval – 3 days
Cranberry		-	1.25-	-	PHI is 3 days.

	blackheaded fireworms, cranberry fruitworms, leafhoppers, meadow spittle bugs (nymphs)		2.75L		Maximum number of applications per year – 1x
Dandelion	aphids	2.25 - 2.75L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Eggplant	aphids, spider mites	1.1- 2.75 L	-	-	PHI is 3 days. Maximum number of applications per year – 4x Minimum interval – 7 days
Endive	aphids, spider mites	1.1 - 2.75L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Flax	grasshoppers	1.1 - 1.75L	-	-	PHI is 7 days. Treat when bees are absent from field and temperature is above 18C. Ground application only. Maximum number of applications per year – 1x
Garlic	aphids, thrips	1.1 - 2.75L	-	-	PHI is 3 days. Maximum number of applications per year – 1x
Grain Crops: Barley, Oats, Wheat, Rye	armyworms, English grain aphids, greenbugs winter grain mites cereal leaf beetle	1.1 - 2.75 L 1.1- 2.5 L 2.2L	-	-	PHI is 7 days. Ground or Aerial application. PHI is 7 days. Ground application only. PHI is 7 days. Ground application only. Maximum number of applications per year – 1x
Grape	aphids, leafhoppers, mealy-bugs, scale crawlers, spider mites	2.25 - 3.5L	-	-	PHI is 3 days. Maximum number of applications per year – 1x
Grape vines (nursery stock)	grape phylloxera	-	-	-	Use 200-400 mL/100L water. Remove excess soil from roots and dip in solution for 5 minutes. 225 L treats about 500 plants. LABELLING TREATED GRAPEVINE ROOTSTOCK: All packaged grapevine rootstocks for sale or use in Canada must be labelled or tagged as follows: 'These grapevine rootstocks have been treated with Fyfanon 50% EC, which contains malathion. Do not resell individual rootstocks without the

					attachment of this label. Store away from feeds and other foodstuffs. Wear a long-sleeved shirt, long pants, gloves, socks and shoes during the unpacking, planting and handling of treated rootstocks and during the clean-up, repair and maintenance of rootstock planting equipment.”
Horseradish	aphids	1.1 - 2.75 L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Leek, Shallot	aphids, thrips	2.25 - 2.75 L	-	-	PHI is 3 days. Maximum number of applications per year – 1x
Lentil	grasshopper	1.70 L	-	-	PHI is 14 days. Ground or Aerial application. Maximum number of applications per year – 2x Minimum interval – 7 days
Lettuce (field)	aphids, cabbage loopers, spider mites, six-spotted leafhoppers	1.5 - 2.75 L	-	-	PHI is 14 days (leaf); 3 days (head) Maximum number of applications per year – 1x
Lettuce (greenhouse)	aphids, greenhouse white flies, spider mites thrips	1.5 - 2.75L	-	-	PHI is 21 days (leaf); 7 days (head). Maximum number of applications per year – 2x Minimum interval – 10 days
Melon	aphids, cucumber beetles, leafhoppers, leaf miners, spider mites	2.25 - 2.75 L	-	20 mL	PHI is 3 days. Maximum number of applications per year – 1x
Mushroom beds & Houses	mites, phorid flies, scirid flies	-	-	-	PHI is 2 days. Use 25-40 mL Fyfanon 50% EC in 11 L water per 100 m ² . Apply immediately after picking. Repeat about twice per week, as required. The same concentration of Fyfanon 50% EC may be sprayed on wooden surfaces in mushroom houses to the point of runoff as needed. When spraying these surfaces, cover beds and DO NOT direct spray towards mushrooms, soil or casing
Mustard, Rape (including Canola)	flea beetles, grasshoppers, diamondback moth (larvae)	1.1 - 1.75L .55-.85L	-	-	PHI is 7 days. Apply when bees are absent from the field and temperature is above 18C. Maximum number of applications per year – 1x
Onion (bulb, green)	thrips	2.25L	-	-	PHI is 3 days.

					Maximum number of applications per year – 1x
Parsnips	Aphids	1.1-2.75 L	-	-	PHI is 7 days Maximum number of applications per year – 1x
Pea	leafhoppers, pea aphids, pea moths, pea weevils, spider mites	2.25L	-	-	PHI is 3 days, Do not apply unless foliage is dry. Maximum number of applications per year – 2x Minimum interval – 7 days
Peach	mites, oriental fruit moths, plum curculios	-	1.0 - 1.75L	10-20 mL	PHI is 7 days. Maximum number of applications per year – 1x
Pumpkin, Cucumber, Squash	aphids, mites, leafhoppers, cucumber beetles, leafminers	2.0L	-	-	PHI is 3 days. Do not apply unless foliage is dry. Maximum number of applications per year – 1x
Pear	aphids, codling moths, leafrollers, mealybugs, pear psylla (suppression only), pear slugs, plum curculios, scale crawlers, spider mites, tent caterpillars	-	1.0-2.5L	10-25 mL	PHI is 3 days. Maximum number of applications per year – 2x Minimum interval – 10 days
Pepper	aphids, leafhoppers, pepper weevils, maggots	-	1.0-2.5L	-	PHI is 3 days. Maximum number of applications per year – 4x Minimum interval – 7 days
Plum, Prune Plums	mealy plum aphids, plum curculios, spider mites	-	1.0- 1.75L	10- 20mL	PHI is 3 days. Maximum number of applications per year – 1x
Potato	aphids, Colorado potato beetles, leafhoppers, spider mites	-	1.5 -2.25L	-	PHI is 3 days. Maximum number of applications per year – 1x
Radish	aphids, flea beetles, leafhoppers	-	1.1- 2.75L-	-	PHI is 7 days. Maximum number of applications per year – 1x
Rutabaga, Turnip	aphids, cabbage loopers, imported cabbageworms, spider mites	1.1 - 2.75L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Salsify	aphids	1.1 -2.75L	-	-	PHI is 7 days. Maximum number of applications per year – 1x

Spinach	aphids, leaf miners	2.75 -3.5L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Strawberry	aphids, leafhoppers, strawberry leafrollers strawberry root weevils (adults)	1.5- 2.2L 2.75- 4.25L	-	-	PHI is 3 days. PHI is 3 days. Make first spray at 2.75 rate when fresh leaf notchings are seen, usually in late April or early May. Second application should be made between fruit harvest and late fall. Post-harvest rate may be increased to 4.25 L per hectare. Maximum number of applications per year – 2x Minimum interval – 7 days
Sugarbeet	flea beetles	1.1L	-	-	Apply at the 3-4 leaf stage when insects or damage first appear. Maximum number of applications per year – 1x
Sweet clover	sweet clover weevils	1.5 - 2.5L	-	-	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 be returned immediately after spraying. Maximum number of applications per year – 2x Minimum interval – 14 days
Tobacco	aphids, leafhoppers, tobacco hornworms	1.1 - 2.0L	-	-	PHI is 7 days. Maximum number of applications per year – 1x
Tomato	aphids, cucumber beetles, leafhoppers, leaf miners, spider mites, tomato russet mites	1.5 - 2.0 L	-	-	PHI is 3 days. Maximum number of applications per year – 4x Minimum interval – 7 days
Wild rice (cultivated)	wild riceworm	2.25L	-	-	PHI is 10 days. For control in non fishbearing waters such as cultivated or paddy grown wild rice, that are confined to the property of the user and where there is no outflow beyond the property limits. Ground or Aerial application. Maximum number of applications per year – 1x

ORNAMENTALS, FLOWERS, TREES AND SHRUBS

Apply adequate spray for good coverage when pests appear or when damage is first observed. Repeat as needed, at a maximum of 4 applications per year, with a minimal interval of 10 days between applications.

1. Outdoors:
Pests Controlled: aphids, bagworms, European pine shot moths, lace bugs, leafhoppers, leaf miners mealybugs, plant bugs, sawflies, scale insects, spider mites, tent caterpillars, thrips, pine needle scale.

<u>Amount of Fyfanon 50 EC per</u>	
Hectare	100 m ²
1.5 - 2.75 L	15-30 mL

Injury may occur on certain ferns, petunias, African violet, crassula and Canaerti juniper and viburnum. Injury is more likely to occur under conditions of extreme heat, drought or disease. On sensitive plants, injury is likely to be less severe with the wettable powder formulation, i.e. Fyfanon 25% WP, than with the emulsifiable liquid.

2. Greenhouse:
Carnation, Chrysanthemum, Geranium, Rose, Snapdragon
Pests Controlled: aphids, greenhouse whiteflies, mealybugs, spider mites, thrips

<u>Amount of Fyfanon 50 EC per</u>	
100 m ²	100 m ³ (*)
15 mL	10 mL

Injury may occur on ferns, petunias, crassula, orchids, gloxinia, begonias, African violets. (*) Greenhouse fogging - close the area and exclude entry of humans or animals. Turn off misting systems. Treat at temperatures between 21-29C. Direct fog over the plants. Do not allow foliage to become visibly wet. Apply 2 or 3 times at 4-day intervals.

Restricted-entry Intervals

Activity	Restricted-entry Intervals REI (days)
Greenhouse lettuce, pasture and rangeland, potato, sugar beets, turnip top (greens), salsify, radish, rutabaga, onions, garlic, leek, shallot, eggplant, pepper, tomato, blackberry, boysenberry, dewberry, strawberry, loganberry, barley, canola (rapeseed, rape), oats, wheat, rye, wild rice (cultivated), corn (grain, forage), alfalfa, clover, sweet clover, canary grass (for seed), mustard, flax, asparagus, tobacco, cranberries,	12 hrs
Beets, turnips, carrots, horseradish, parsnip, lettuce, spinach, celery, collard, kale, parsley, Swiss chard, endive, kohlrabi, watercress, dandelion, beans, lentils, peas, cucumber, melon, pumpkin, squash,	1
Greenhouse ornamentals, broccoli, Brussel sprouts, cabbage, cauliflower	2

Outdoor ornamentals	
All activities	3
Apples, apricots, pears	
Hand thinning	3
Hand harvest, hand line irrigation	2
All other activities	12 hrs
Peach, plum, prune plum,	
Hand thinning	3
All other activities	1
Grapes	
Girdling, cane turning	5
Hand harvest, training, tying, leaf pulling, hand pruning, thinning	4
All other activities	12 hrs
Mushroom beds and houses	
All activities	12 hrs

OUTSIDE FOUNDATIONS

LOCATION/PEST	AMOUNT OF FYFANON 50% EC	DIRECTIONS FOR USE
Outside Foundations, Ants, clover mites, grasshoppers, millipedes, spiders, sowbugs	60 mL in 1 L of water	Treatment of outdoor structural foundations only, and the 1 m wide path surrounding the foundation. Apply where insects congregate. Repeat at 9-10 day intervals. For clover mites, apply to exterior wall surfaces along building foundation. Do not apply to edible plants.

EMPTY GRAIN ELEVATORS GRANARY BINS OR GRAIN BOX CARS

Pest Controlled: Confused flour beetles, flat grain beetles, granary weevils, grain mites, Indian meal moths, lesser grain borers, red flour beetles, rice weevils, rusty and saw-toothed grain beetles.

Precautions: 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. Use a respirator when spraying in close areas.

NOTE: Fyfanon 50% EC 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. Fyfanon malathion is available in special liquid or dust formulations for mixing with or application to the surface of stored grain. Only those products with labels containing specific directions for this usage should be applied directly to grain.

Spray Mixture: One litre Fyfanon 50% EC 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 spraying, clean premises thoroughly, including floors, walls, under and behind machinery and equipment. Remove and burn all sweepings and debris. Re-clean before re-treatment. Maintain good sanitation at all times. Spray to the point of runoff or at the rate of approximately 5 litres per 100 m². Use spray equipment and nozzles that will produce a coarse spray.

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 sackline level, spray the walls and floor, using 4-5 litres of spray per car. Allow sprayed car 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.