

POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Fyfanon™ 440 EW

INSECTICIDE

ACTIVE CONSTITUENT: 440 g/L MALDISON
(an anticholinesterase compound)

GROUP 1B INSECTICIDE

For the control of a wide range of insect pests in certain crops, eucalypts and wildflowers as shown under Directions for Use
IMPORTANT: READ THE ENCLOSED LEAFLET BEFORE USE.



2399wcd

APVMA No: 51150/20L/0606



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Manufactured by  CHEMINOVA A/S Denmark

Contents 20L

Fyfanon™ 440 EW

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Harmful if inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Obtain an emergency supply of atropine tablets 0.6 mg. Will irritate the eyes. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container, preparing spray and using the product wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow length PVC gloves. After use and before eating, drinking or smoking, wash hands arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

MSDS

Additional information is listed in the Material Safety Data Sheet.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label. Ospray Pty Ltd accepts no liability or responsibility for loss or damage arising from incorrect storage, handling or use.

Fyfanon™ is a trademark of Cheminova A/S

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B/N

DOM

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DIRECTIONS FOR USE

1. Tree and Vine crops

This table shows rates for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.

CROP/SITUATION	PEST	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Apples, Pears	Apple Leaf Hopper, Codling moth, Red spider mite, Thrips, Woolly aphid	NSW, Vic, SA, WA only	140 mL/100 L water	3 days	Apply at first sign of pest.
	Apple Leaf Hopper, Codling moth, European red mite, Thrips, Woolly aphid	Tas, WA only			
Citrus	Purple Scale, Red Scale, Soft Brown Scale	NSW, Vic, SA, WA, NT only	230 mL/100 L plus 1.3 L summer oil/ 100 L water	3 days	Apply November-March. For best results apply twice; November-January and then early February.
	Pink Wax Scale				Apply December-early January or when crawlers are active.
	Purple scale, Soft brown scale	Tas, WA only		Apply November-March, with two applications, the first November-January and the second in February. Early application gives best results.	
	Bronze Orange Bug, Citrus Aphid, Citrus Butterfly, Rutherglen Bug, Spined Citrus Bug, Tree Hopper, Thrips	NSW, Vic, SA, WA only	140 mL/100 L water	Apply as necessary.	
	Citrus Aphid, Rutherglen Bug, Tree Hopper, Thrips	Tas, WA only			
Fruit trees	Fruit Fly	WA, NT only	Bait 700 mL plus 700 mL protein hydrolysate/ 100 L water	3 days	Apply to leaves, as a spray or splashed on, weekly from 6 weeks before fruit is ripe to 2 weeks after harvest.
Grape vines	Mealy Bug	NSW Vic, SA, WA, Tas only	230 mL/100 L water	3 days	Apply when pests appear and repeat if pest population increases. For application during summer months if scale population increases.
	Vine Moth		140 mL/100 L water		
	Grape Vine Scale		230 mL/100 L plus 1.3 L summer oil/ 100 L water		
Stone fruit	Black Peach Aphid, Green Peach Aphid, European red mite, Oriental fruit moth	NSW Vic, SA, WA, Tas only	140 mL/100 L water	3 days	Apply at first sign of pest and repeat as necessary. Warning Some Green Peach Aphid populations may be resistant to organophosphate insecticides, and therefore NOT be controlled by FYFANON 440

2. Field crops and pasture

CROP/SITUATION	PEST	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Canola	Rutherglen Bug	Vic, SA only	1.25 L	-	Apply at first sign of pest, repeat every 7-10 days as necessary.

CROP/SITUATION (cont)	PEST	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Cereals, Non-crop areas, Pastures	Plague Locust, Small Hoppers	NSW, SA, WA only	1.4 L	1 day	Ground application only <u>Boom</u> apply in 110 L water/ha <u>Misting</u> apply in 2.5 L water/ha. Repeat as necessary.
		Vic only	2.5 L		
	Large Hoppers, Plague Locust	NSW, SA, WA only	1.9 L		
		Vic only	2.5 L		
Field Cricket (<i>Teleogryllus commodus</i>)	Vic, SA, Tas, WA only	Bait 285 mL/10 kg kibbled grain/ha	Immature crickets		
Bait 285-570 mL/10- 20 kg kibbled grain/ha		Mature crickets Use higher rate for heavy infestations. Mix in a drum or cement mixer and keep 24 hours before spreading. Spread in late afternoon and evening early in the season, and morning late in the season. Baiting may be ineffective if large amounts of pasture seed are present. Apply in evening. Ensure pasture cover is low so chemical will come into direct contact with crickets. Spraying may be ineffective if cold conditions keep crickets underground for 1-2 days, or if rain falls after application.			
Spray 1.6 L/25-50 L water					
Lucerne	Lucerne Flea	NSW, Vic, SA, Tas only	160-340 mL	1 day	Apply by low volume equipment with sufficient water to ensure good coverage at 3-4 weekly intervals after opening rains. Vary rate according to stage of growth.
	Spotted Alfalfa Aphid	NSW, SA only	1.25 L		
	Pea Aphid	Vic only			Apply at first sign of pest. Use sufficient water to ensure thorough coverage.
	Field Cricket (<i>Teleogryllus commodus</i>)	Vic only	Bait 285 mL/10 kg kibbled grain/ha		Immature crickets
Bait 285-570 mL/10- 20 kg kibbled grain/ha	Mature crickets: Use higher rate for heavy infestations. Mix in a drum or cement mixer and keep 24 hours before spreading. Spread in late afternoon and evening early in the season, and morning late in the season. Baiting may be ineffective if large amounts of pasture seed are present.				
Spray 1.6 L/25-50 L water			Apply in evening. Ensure pasture cover is low so chemical will come into direct contact with crickets. Spraying may be ineffective if cold conditions keep crickets underground for 1-2 days, or if rain falls after application.		
Pastures	Spotted Alfalfa Aphid	NSW, SA, WA only	1.25 L	Apply at first sign of pest. Use sufficient water to ensure thorough coverage.	

CROP/SITUATION (cont)	PEST	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Rice	Rice Bloodworm Larvae	NSW, WA only	680 mL/ 10-30 L water/ha	-	Apply by aircraft to rice bays at or within 24 hours of sowing, or when infestations occur after application of permanent water.
	Common Armyworm	NSW, Vic, Qld only	1.8 L	1 day	When infestation is widespread, spray total crop. When infestation is moving as an army, spray the front.

3. Vegetable crops

CROP/SITUATION	PEST	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Cucurbits	Pumpkin Beetle	NSW, Vic, SA, WA only	140-230 mL/ 200 L water	3 days	Apply as necessary.
Tomatoes	Tomato Russet Mite	NSW, Vic, SA, WA, Tas, NT only	140-230 mL/ 100 L water	3 days	Apply at first sign of pest and repeat as necessary.
Vegetables (Bean, Cabbage, Carrot, Cauliflower, Celery, Cucurbit, Lettuce, Tomato)	Aphid, Green Vegetable Bug, Jassid, Leaf Hopper, Red Legged Earth Mite (not Tas), Rutherglen Bug, Twentyeight-spotted Ladybird (not Tas)	NSW, Vic, Qld, SA, WA, Tas, NT only	140-230 mL/ 100 L water	3 days	Apply at first sign of pest. Ensure adequate coverage in later growth stages by increasing rate and volume. Warning: Some Green Peach Aphid populations may be resistant to organophosphate insecticides, and therefore NOT be controlled by FYFANON 440

4. Stored cereal grain

CROP/SITUATION	PEST	STATE	RATE/ha	WHP	CRITICAL COMMENTS
Stored cereal grain, Grain storage facilities and equipment	Stored grain insect pests (except Lesser Grain Borer) including: Indian Meal Moth, Rice Weevil, Rust-Red Flour Beetle, Saw-Toothed Grain Beetle, Tropical Warehouse Moth	WA only	5.7 L/100 L water (10 L prepared spray/ 200 m ² surface)	Maldison level 8 ppm or 90 days	Apply prepared spray to the walls, floors, roof structure, machinery, transport vehicles and areas surrounding storage facilities. Use as a routine hygiene procedure before grain is stored in any facility. Prevent surface contamination of grain. Do not apply more than at 2 monthly intervals in warm weather and 3 monthly intervals in winter.
Up to 6 months protection			2.7 L/10 L water (12 ppm) (1 L prepared spray/ 1 tonne grain)		Apply to the grain as it is being transferred into storage. Ensure the use of suitable equipment to give an even coverage to the grain and which will adjust to the flow rate of the grain.
At 3 monthly intervals			570 mL/1 L water (5 L prepared spray/ 100 m ²)		Apply to the surface of the stored grain.

5. Miscellaneous

CROP/SITUATION	PEST	STATE	RATE/ha	CRITICAL COMMENTS
Animal quarters	Fleas, ticks and flies	All States	11.5 mL/1 L water (50 g sugar may be added per 1 L of spray as a bait for fly control)	Apply thoroughly to animal houses such as stables, kennels, and bedding using 1 L of diluted spray per 20 m ² of area. Good basic sanitation is necessary for a successful fly control program. Remove manure piles and other waste materials which act as breeding sites.
Dairies, Stables, Factories, Homes	Flies		2.3 L/100 L water	Treat surface where flies congregate such as walls, ceilings, stanchions, windows, etc. Repeat as required.
Poultry and Pig Sheds	Common hide beetle (<i>Dermestes maculatus</i>)	All States	6.8 L/100 L water Spray 5 L of solution to 100 m ²	Ensure proper sanitation and run-off.
Eucalypts, Natives	Autumn Gum Moth, Gumleaf Skeletoniser, Leaf Beetle, Spittfire, Spring Beetle	SA, WA, NT only	340 mL plus 125 mL activator/ 100 L water	When mixing with alkaline water, use 500 mL of LI700 per 100 L instead of activator.
	Scale insects		195 mL plus 3.3 L white oil/ 100 L water	Ensure thorough coverage.
Flowers, Ornamentals	Aphid, Azalea Lace Bug, Mites	NSW, Vic, SA, WA, Tas, NT only	140 mL/100 L water	Apply at first sign of pest, repeat every 7-10 days as necessary.
	Scale on hardy plants		230 mL/100 L plus 1.3 L summer oil/ 100 L water	
Wildflowers, Proteas	Aphid, Leaf Hopper, Sucking bugs, Thrips	SA, WA only	115 mL/100 L water	Ensure thorough coverage.
	Grasshoppers		Spray 570 mL/100 L water Bait 55 mL/1 kg bran	Mix bait in a plastic bag. Leave overnight. Spread thoroughly.
Mosquitoes Breeding areas	Adults	All States	680 mL	Dilute with water as required. Apply by pressure spray or misting machine. Treat verges of infested waterways: ensure thorough coverage. Apply at first sign of larvae or major emergence of adults. Repeat if further outbreaks occur.
	Larvae		1.1 L	
Tobacco Seed bed Field	Brown Vegetable Weevil, Springtails	Vic, WA only	115 mL/100 L water	Apply the spray to tobacco in seed-bed when the insects are present. Repeat application of the spray at 7-10 day intervals if necessary to control the insects. Ensure thorough coverage.
	Small Plague Wingless Grasshopper			

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION WITHHOLDING PERIODS

***Cereal crops, lucerne, pasture:* DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION**

***Fruit, vegetables:* DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION**

***Stored cereal grain - 12 ppm:* HOLD GRAIN IN STORE AND DO NOT USE FOR PROCESSING INTO FOOD FOR HUMAN CONSUMPTION OR STOCK FOOD UNTIL THE MALDISON LEVEL HAS DECLINED TO 8 ppm OR WITHIN 90 DAYS AFTER TREATMENT**

***Rice (Common Armyworm):* DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

GENERAL INSTRUCTIONS

Mixing/Application

DILUTE SPRAYING

(Tree and Vine Crops only)

Use a sprayer designed to apply high volumes of water up to the point of runoff and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.

The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.

Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.

The required dilute spray volume will change unless otherwise specified and the sprayer set up and operation may also need to be changed, as the crop grows.

CONCENTRATE SPRAYING (Tree and Vine Crops only)

- Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.
- Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying can then be calculated in the following way:

EXAMPLE ONLY

- Dilute spray volume as determined above: For example 1500 L/ha
- Your chosen concentrate spray volume: For example 500 L/ha
- The concentration factor in this example is: $3 \times$ (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)
- If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3×10 , that is 30 mL/100 L of concentrate spray.
- The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.
- For further information on concentrate spraying, users are advised to consult

relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

INSECTICIDE RESISTANCE WARNING

GROUP 1B INSECTICIDE

For insecticide resistance management Fyfanon 440 EW Insecticide is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to Fyfanon 440 EW Insecticide and other Group 1B insecticides may exist through normal genetic variability in any insect population.

The resistant individuals can eventually dominate the insect population if Fyfanon 440 EW Insecticide or other Group 1B insecticides are used repeatedly. The effectiveness of Fyfanon 440 EW Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, Ospray Pty Ltd accepts no liability for any losses that may result from the failure of Fyfanon 440 EW Insecticide to control resistant insects.

Fyfanon 440 EW Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Ospray Pty Ltd representative or local agricultural department agronomist.

Read Directions for Use, Precautionary Statements, Safety Directions and First Aid instructions prior to opening. Use only at the recommended growth stages. Use only on recommended crops.

MIXING

Add the recommended quantity of this product to the required volume of water, mix thoroughly.

PRECAUTIONS

Avoid contact with food, food utensils, or places where food is prepared or stored.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray on any plants in flower while bees are foraging.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray

to drift onto adjacent areas, particularly wetlands, waterbodies or watercourses. Dangerous to fish and aquatic invertebrates. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

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