Product Name: Fyfanon® 440 EW Insecticide

Label component: Label/Leaflet

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 ATTACHED LEAFLET BEFORE USE

CONTENTS 1 – 100 L

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.

Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves. Wash hands after use. 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 Australia 131126 or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from www.fmccrop.com.au.

NOTICE TO BUYER

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The Product must be used and applied strictly in accordance with the label instructions and other directions for use. It is impossible to eliminate all risks associated with the use of this product. Such risks may arise from factors such as weather conditions, soil factors, off-target movement, unconventional technique, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of FMC or the Seller. Buyer accepts these risks.

APVMA Approval No: 51150/101326

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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	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Apples, Pears	Apple leaf hopper, Codling moth, Red spider mite, Thrips, Woolly aphid Apple leaf hopper, Codling moth, European red mite, Woolly aphid	NSW, ACT, Vic, SA, WA only Tas, WA only	140 mL/100 L	3 days	Apply at first sign of pest.
Citrus	Purple scale, Red scale, Soft brown scale Pink wax scale	NSW, ACT, Vic, SA, WA, NT only	230 mL/100 L Plus 1.3 L summer oil/ 100 L		Apply November-March. For best results apply twice; November-January and then early February. 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, ACT, Vic, SA, WA only	140 mL/100 L		Apply as necessary.
	Citrus aphid, Rutherglen bug, Tree hopper, Thrips	Tas, WA only			
Grapevines	Mealy bug Vine moth Grape vine scale	NSW, ACT, Vic, Tas, SA, WA, only	230 mL/100 L 140 mL/100 L 230 mL/100 L Plus 1.3 L summer oil/100 L		Apply when pests appear and repeat if pest population increases. For application during summer months if scale population increases.
Stone Fruit	Black peach aphid, Green peach aphid, European red mite, Oriental fruit moth		140 mL/100 L		Apply at first sign of pest and repeat as necessary. Warning: Some Green Peach Aphid populations may be resistant to organophosphate insecticides, and therefore WILL NOT be controlled by FYFANON® 440 EW

2. Field crops and pasture

CROP/ SITUATION	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Canola	Rutherglen bug	Vic, SA only	1.25 L/ha	-	Apply at first sign of pest, repeat every 7-10 days as necessary.
Cereals, Non-Crop Areas, Pastures	Plague locust, Small hoppers	NSW, ACT, SA, WA only Vic only	1.4 L/ha 2.5 L/ha	1 day	Ground application only Boom apply in 110 L water/ha Misting
	Large hoppers, Plague locust	NSW, ACT, SA, WA only	1.9 L/ha		apply in 2.5 L water/ha. Repeat as necessary.
Cereals, Non-Crop Areas, Pastures	Field cricket (Teleogryllus commodus)	Vic only Vic, Tas, SA, WA only	2.5 L/ha Bait 285 mL/10 kg kibbled grain/ha	1 day	Immature crickets
continued			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		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.
Lucerne	Lucerne flea	NSW, ACT, Vic, Tas, SA only	160-340 mL/ha		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, ACT, SA only	1.25 L/ha		Apply at first sign of pest. Use sufficient water to ensure thorough coverage.
	Pea aphid	Vic only	1		
	Field cricket (Teleogryllus commodus)		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		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, ACT, SA, WA only	1.25 L/ha		Apply at first sign of pest. Use sufficient water to ensure thorough coverage.

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CROP/ SITUATION	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Rice	Rice bloodworm larvae	NSW, ACT, WA only	680 mL/ 10 - 30 L/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	Qld NSW, ACT, Vic only	1.8 L/ha	1 day	When infestation is widespread, spray total crop. When infestation is moving as an army, spray the front.

3. Vegetable crops

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Cucurbits	Pumpkin beetle	NSW, ACT, Vic, SA, WA only	140-230 mL /100 L	3 days	Apply as necessary.
Tomatoes	Tomato russet mite	NSW, ACT, Vic, Tas, SA, WA, NT only			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)	All states			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 WILL NOT be controlled by Fyfanon® 440 EW

4. Fruit and Vegetables – Fruit Fly

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS		
					I. Fyfanon® 440 EW assists in the management of fruit		
flies as part of an integrated program that includes other registered insecticides, baiting, trapping, pest monitoring, and							
orchard hygiene. The efficacy of the multi-faceted approach will be dependent upon the level of pest pressure during the							
season. Apples,	Fruit fly	All	140 – 230 mL/	3 days	Apply treatment when fruit fly activity is initially		
Pears	riult fly	states	100 L	3 uays	observed, as determined by regular monitoring and		
Citrus		States	100 L		fruit fly trapping. Apply as a thorough cover spray to		
Grapevines					the point of run-off.		
Persimmons					DO NOT spray on any plants in flower while bees are		
Stone fruit					foraging.		
Strawberries.					Strawberries, Blueberries, Rubus and Ribes		
Blueberries,					Apply a maximum of 6 applications per season, with a		
Rubus and					minimum of 7 days between consecutive (repeat)		
Ribes					sprays.		
Capsicum,			295 mL/100 L		Other crops		
Tomato					Apply a maximum of 4 applications per season, with a		
Cucumbers				1 day	minimum of 7 days between consecutive (repeat)		
					sprays.		
Fruit trees	Fruit fly	All	Bait	3 days	Apply as a lower pressure coarse foliar, spot or strip		
		states	700 mL-100 L		spray throughout the orchard or in		
			(308 g ai/100 L)		fruit fly hot spots.		
			plus a protein		For foliar and strip spraying apply in a volume of 5 –		
			bait at		20 L/ha of bait solution.		
			recommended		For spot spraying, apply 100 - 150 spots/ha at 50 –		
			rates.		100 mL/spot of bait solution.		
					Only apply to leaves, trunk and lower limbs of trees.		
					Apply weekly from 6 weeks before harvest to 2 weeks after harvest.		
					If rain occurs after application, reapply as soon as		
					possible after the rain event.		
					DO NOT apply directly to fruit.		
					DO NOT spray trees when bees are foraging. DO NOT		
					use the bait treatment as a broadcast or cover spray.		
Blueberries,			Bait	3 days	Apply only to perimeter non-crop vegetation and fruit		
Rubus &			700 mL-100 L		fly resting sites.		
Ribes and			(308 g ai/100 L)		Apply as a low pressure coarse foliar, spot or strip		
Strawberries			plus a protein		spray.		
			bait at		For foliar and strip spraying, apply in a volume of 5 -		
		1	recommended		20 L/ha of bait solution.		
		1	rates.		For spot spraying, apply 100 - 150 spots/ha at 50 - 100 mL/spot of bait solution.		
		1			Only apply to leaves, trunk and lower limbs of trees.		
		1			Apply weekly from 6 weeks before harvest. If rain		
		1			occurs after application, reapply as		
		1			soon as possible after the rain event.		
					DO NOT apply directly to fruit.		
		1			DO NOT spray trees when bees are foraging. DO NOT		
		1			use the bait treatment as a broadcast		
					or cover spray.		

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5. Stored cereal grain

CROP/	PEST	STAT	RATE	WHP	CRITICAL COMMENTS
SITUATION		E			
Stored	Stored grain	WA	5.7 L/100 L	Maldison	Apply prepared spray to the walls, floors, roof
Cereal	insect pests	only	(10 L prepared	level 8	structure, machinery, transport vehicles and
Grain,	(except Lesser		spray/ 200 m ²	ppm or	areas surrounding storage facilities. Use as a
Grain	grain borer)		surface)	90 days	routine hygiene procedure before grain is stored
Storage	including:				in any facility. Prevent surface contamination of
Facilities	Indian meal				grain. DO NOT apply more than at 2 monthly
and	moth,				intervals in warm weather and 3 monthly intervals
Equipment	Rice weevil,				in winter.
	Rust-red flour		2.7 L/10 L (12		For up to 6 months protection apply to the grain
	beetle,		ppm)		as it is being transferred into storage. Ensure the
	Saw-toothed		(1 L prepared		use of suitable equipment to give an even
	grain beetle,		spray/ tonne		coverage to the grain and which will adjust to the
	Tropical		grain)		flow rate of the grain.
	warehouse		570 mL/ L		At 3 monthly intervals apply to the surface of the
	moth		(5 L prepared		stored grain.
			spray/ 100 m ²)		

6. Miscellaneous

CROP/	PEST	STATE	RATE	CRITICAL COMMENTS
SITUATION				
Animal Quarters	Fleas, flies, ticks	All States	11.5 mL/ L (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 m² 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	Treat surface where flies congregate such as walls, ceilings, stanchions, windows, etc. Repeat as required.
Poultry and Pig Sheds	Common hide beetle (Dermestes maculatus)		6.8 L/100 L Spray 5 L of solution to 100 m ²	Ensure proper sanitation and run-off.
Eucalypts, Natives	Autumn gum moth, Gumleaf skeletoniser, Leaf beetle, Spitfire, Spring beetle	SA, WA, NT only	340 mL plus 125 mL activator/ 100 L	When mixing with alkaline water, use 500 mL of LI700 per 100 L instead of activator.
	Scale insects		195 mL plu s 3.3 L white oil/ 100 L	Ensure thorough coverage.
Flowers, Ornamentals	Aphid, Azalea lace bug, Mites Scale on hardy plants	NSW, ACT, Vic, Tas, SA, WA, NT only	230 mL/100 L plus 1.3 L summer oil/ 100 L	Apply at first sign of pest, repeat every 7-10 days as necessary.
Wildflowers, Proteas	Aphid, Leaf hopper, Sucking bugs, Thrips	SA, WA only	115 mL/100 L	Ensure thorough coverage.
	Grasshoppers		Spray 570 mL/100 L Bait 55 mL/1 kg bran	Mix bait in a plastic bag. Leave overnight. Spread thoroughly.
Mosquitoes breeding areas	Adults Larvae	All States	680 mL/ha 1.1 L/ha	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.

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CROP/ SITUATION	PEST	STATE	RATE	CRITICAL COMMENTS
Tobacco Seed bed	Brown vegetable weevil, Springtails	Vic, WA only	115 mL/100 L	Apply the spray to tobacco in seed-bed when the insects are present. Repeat application of the
Field	Small plague wingless grasshopper			spray at 7 - 10 day intervals if necessary to control the insects. Ensure thorough coverage.

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 NOTGRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION

FRUIT AND VEGETABLES EXCEPT CUCUMBERS: DO NOTHARVEST FOR 3 DAYS AFTER APPLICATION

CUCUMBERS: DO NOTHARVEST FOR 1 DAY AFTER APPLICATION

STORED CEREAL GRAIN - 12 PPM: HOLD GRAIN IN STORE AND DO NOTUSE 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 NOTHARVEST 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)

- a) 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.
- b) Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.
- c) Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- d) The mixing rate for concentrate spraying can then be calculated in the following way:

EXAMPLE ONLY

- (i) Dilute spray volume as determined above: For example 1500 L/ha
- (ii) Your chosen concentrate spray volume: For example 500 L/ha
- (iii) The concentration factor in this example is: 3 X (i.e. $1500 L \div 500 L = 3$)
- (iv) If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3 x 10, that is 30 mL/100 L of concentrate spray.
- e) 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.
- f) For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

INSECT 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 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 or other Group 1B insecticides are used repeatedly. The effectiveness of Fyfanon® 440 EW on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, FMC accepts no liability for any losses that may result from the failure of Fyfanon® 440 EW to control resistant insects. Fyfanon® 440 EW may be subject to specific resistance management strategies. For further information contact your local supplier, FMC representative or local agricultural department agronomist.

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.

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.

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May irritate the eyes and skin. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves. Wash hands after use. 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 Australia 131126 or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

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