

Abacin 18 EC

INSECTICIDE/MITICIDE

DIRECTIONS FOR USE

RESTRAINTS

DO NOT use if rainfall is expected before spray has dried as reduced efficacy may result.
DO NOT make more than two applications to cotton per season, regardless of pest being controlled.
TURF
DO NOT apply to turf under heat or moisture stress
DO NOT apply if rainfall imminent
DO NOT apply by backpack
DO NOT apply by hand gun sprayer
DO NOT apply with aircraft
DO NOT apply through any type of irrigation system or ultra low volume spray system
DO NOT apply with a nozzle height greater than 50 cm above the ground

SITUATION	PEST	RATE	WHP (days)	CRITICAL COMMENTS
Cotton	Two Spotted Mite (<i>Tetranychus urticae</i>), Carmine Mite (<i>Tetranychus cinnabarinus</i>)	300 mL/ha	20	Apply to actively growing crops. Thorough coverage is essential. Monitor crops regularly and apply as soon as the threshold mite number for your area has been reached. Best results will be obtained when applied to low mite populations. Application to high populations may not give satisfactory control. Under these conditions a second miticide application 7-10 days later may be needed.
Cotton (Old, NSW only)	Native Budworm (<i>Helicoverpa punctigera</i>), Bollworm (<i>Helicoverpa armigera</i>)	300 or 600 mL/ha		Apply to actively growing crops. Thorough coverage is essential. Apply when larvae threshold levels warrant treatment. Use the low rate only when Lepton test kit results show less than 10% Helicoverpa armigera. The addition of 2 L/ha amitraz is recommended if brown eggs reach threshold. Larvae feeding within bolls may not be controlled. Application should target brown eggs and newly emerged larvae (neonates). DO NOT apply more than twice in one season for Helicoverpa control.
Soybeans	Two Spotted Mite (<i>Tetranychus urticae</i>)	300 mL/ha	28	Apply to actively growing crops. Thorough coverage is essential. Monitor crops regularly and apply as soon as there are 10 mites per leaf. Best results will be obtained when applied to low mite populations. Application to high populations may not give satisfactory control. Under these conditions a second miticide application 7-10 days later may be needed. DO NOT apply more than 2 sprays per season.
Tomatoes - Field grown (not trellised)	Two Spotted Mite (<i>Tetranychus urticae</i>)	300-450 mL/ha	3	Apply in sufficient volume to obtain even coverage and penetration of plants. Use droppers to direct spray onto plants and away from the inter-row. Preferably apply before the build-up of mite numbers. If mite numbers exceed 5 mites per compound leaf, use the higher rate. Re-apply as pest numbers indicate. Allow at least 28 days between applications with FARMALINX Abacin 18 EC Insecticide/Miticide and DO NOT use more than 2 FARMALINX Abacin 18 EC Insecticide/Miticide sprays per crop. Refer to notes on Resistance under General Instructions section of this label.
	Tomato Russet Mite (<i>Aculops lycopersic</i>)			Apply as for Two Spotted Mite. The lower rate will control Tomato Russet Mite not apparent at spraying. Use the higher rate when Tomato Russet Mite is present at spraying or is the main pest.
	Tobacco Leafminer (Potato moth) (<i>Phthorimaea operculella</i>)	600 mL/ha		Apply in sufficient volume to obtain even coverage and penetration of plants. Use droppers to direct spray onto plants away from the inter-row. Apply on the first sign of pests. Re-apply as pest numbers indicate or every 7-10 days with a maximum of 5 applications to the crop. If mites are also a problem DO NOT use more than 2 FARMALINX Abacin 18 EC Insecticide/Miticide sprays per crop. Refer to notes on Resistance under General Instructions section of this label. Note: Other IPM strategies to reduce leafminer populations should be employed.
Tomatoes - Trellised or staked Tomatoes	Two Spotted Mite (<i>Tetranychus urticae</i>)	High volume spraying: 300 mL-450 mL FARMALINX Abacin 18 EC/ha using concentrations of 60-90 mL/100 L	3	Wet foliage to near the point of run-off. Thorough coverage and penetration into bushes is essential. Preferably apply before the build-up of mite numbers. If mite numbers exceed 5-6 mites per compound leaf, use the higher rate. Re-apply as pest numbers indicate. Allow at least 28 days between applications with FARMALINX Abacin 18 EC Insecticide/Miticide and do not use more than 2 FARMALINX Abacin 18 EC Insecticide/Miticide sprays per crop. Refer to notes on resistance under General Instructions section of this label.
	Tomato Russet Mite (<i>Aculops lycopersic</i>)			Apply as for Two Spotted Mite. The lower rate will control Tomato Russet Mite not apparent at spraying. Use the higher rate when Tomato Russet Mite is present at spraying or is the main pest.
	Tobacco Leafminer (Potato moth) (<i>Phthorimaea operculella</i>)	High volume spraying: 600 mL FARMALINX Abacin 18 EC/ha using concentrations of 120 mL/100 L		Wet foliage to near the point of run-off. Thorough coverage and penetration into bushes is essential. Apply on the first sign of pests. Re-apply as pest numbers indicate or every 7-10 days with a maximum of 5 applications to the crop. If mites are also a problem DO NOT use more than 2 FARMALINX Abacin 18 EC Insecticide/Miticide sprays per crop. Refer to notes on Resistance under General Instructions section of this label. Note: Other IPM strategies to reduce leafminer populations should be employed.

MAINTENANCE SAFETY DATA SHEET
Additional information is listed in the material safety data sheet (MSDS), a material safety data sheet for FARMALINX Abacin 18 EC insecticide/miticide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 9389 2455.

If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131129; New Zealand 0800 764 766.
If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT drift from the target area. Use of nozzles and spray equipment that may cause spray drift, or spray drift, may be detrimental to other species.
DO NOT apply under weather conditions or from spraying equipment that may cause spray drift, or spray drift, may be detrimental to other species.
DO NOT apply under weather conditions or from spraying equipment that may cause spray drift, or spray drift, may be detrimental to other species.

PROTECTION OF LIVESTOCK
DO NOT graze treated turf/lawn or feed turf/lawn clippings from any treated area to poultry or livestock. Highly toxic to bees. Will kill bees foraging in or near treated turf or hives which are oversprayed or reached by spray drift. Residues may remain toxic to bees for several days after application.
DO NOT graze treated turf/lawn or feed turf/lawn clippings from any treated area to poultry or livestock. Highly toxic to bees. Will kill bees foraging in or near treated turf or hives which are oversprayed or reached by spray drift. Residues may remain toxic to bees for several days after application.

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-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of triple-rinse chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by FARMALINX Pty Ltd or under abnormal conditions. FARMALINX Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

farmalinx
Partners in Agriculture

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APVMA Approval No. 65471/100172

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

FARMALINX

Abacin 18 EC

INSECTICIDE/MITICIDE

ACTIVE CONSTITUENT: 18 g/L ABAMECTIN

SOLVENTS: 265 g/L METHYL-2-PYRROLIDONE

GROUP **6** INSECTICIDE

For the control of pest mites and native budworm on cotton and two-spotted mite in soybeans, for the control of certain mites and insect pests on apples, capsicums, citrus, hops, ornamentals, pears, tomatoes and strawberries and for control of couchgrass, mite in turf as specified in the Directions for Use table.

IMPORTANT: THIS LEAFLET IS PART OF THE LABEL ATTACHED TO THE CONTAINER. READ THOROUGHLY BEFORE USING THIS PRODUCT.

FARMALINX Pty Ltd. ABN 95 134 353 245
Level 25, Suite 2506, Tower 2, 101 Grafton Street,
Bondi Junction NSW 2022

farmalinx

TREE AND VINE CROPS

RATE				CRITICAL COMMENTS
In this table, all rates are for dilute spraying. For concentrate spraying, refer to the Application Section				
SITUATION	PEST	RATE	WHP (days)	
Apples, Pears	Two Spotted Mite (<i>Tetranychus urticae</i>), European Red Mite (<i>Panonychus ulmi</i>)	75 mL/100 L plus 5 L/ha summer oil (See Mixing Instructions for mixing rates)	14	For best results, apply the product using dilute applications (spraying to point of run-off). If applying with concentrate applications-efficacy may be compromised. DO NOT apply at more than two times concentrate (ie. half the dilute water volume). Use a high quality summer spraying oil only and follow label instructions. In apples, apply FARMALINX Abacin 18 EC Insecticide/Miticide from 2 to 6 weeks after petal fall if monitoring shows high numbers of over-wintering European red mite eggs are present, or if mites are a problem early in the season. In pears, timing is not as critical and the application should be made soon after mite numbers have reached the threshold for your area. Generally FARMALINX Abacin 18 EC Insecticide/Miticide takes about 7 days to reach maximum mite control. FARMALINX Abacin 18 EC Insecticide/Miticide will control moderate to high mite populations, but in the absence of predatory mites (see Integrated Pest Control below), retreatment with another miticide may be necessary. If retreatment is required, use an approved miticide from a different chemical group. Refer to notes on Resistance and Crop Safety under General Instructions section of this label. Integrated Pest Control: The effects of FARMALINX Abacin 18 EC Insecticide/Miticide on parasitic wasps and other beneficial insects in Australian orchards are not fully known. Studies have shown that after application of FARMALINX Abacin 18 EC Insecticide/Miticide, predatory mite populations may not increase for a number of weeks, due to a lack of suitable pest mite prey. Predatory mite numbers will increase with any increase in pest mite numbers allowing the continuation of biological mite control. DO NOT use in IPM programmes unless the pest mite threshold has been reached and predators are unlikely to achieve effective control.
Citrus	Brown Citrus Rust Mite (<i>Tegolophus australis</i>), Citrus Rust Mite (<i>Phyllocoptera oleivora</i>), Broad Mite (<i>Polytagogator sonemus latus</i>)	15-25 mL/100 L plus 250 mL/100 L summer oil	7	Apply by dilute spraying equipment in 3000 L to 6000 L water/ha. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Use the higher rate under conditions of high pest pressure. Make no more than one application per season.
Hops	Two Spotted Mite (<i>Tetranychus urticae</i>)	1 L/ha	28	Apply as pest pressure indicates as a dilute spray in 1000 to 2000 L water/ha depending on crop size. Make no more than one application per season.

FRUIT, VEGETABLES AND ORNAMENTALS

SITUATION	PEST	RATE	WHP (days)	CRITICAL COMMENTS
Capsicums	Two Spotted Mite (<i>Tetranychus urticae</i>)	300 mL/ha	3	Thorough coverage and penetration into the plant canopy is essential. Preferably apply before the build-up of mite numbers. Re-apply as pest numbers indicate. Alternate with other chemical groups. Allow at least 28 days between applications with FARMALINX Abacin 18 EC Insecticide/Miticide and DO NOT use more than 2 FARMALINX Abacin 18 EC Insecticide/Miticide sprays per crop. Refer to notes on resistance under General Instructions section of this label.
Strawberries	Two Spotted Mite (<i>Tetranychus urticae</i>)	100 mL/100 L If spray volume is less than 600 L/ha, use a minimum of 600 mL FARMALINX Abacin 18 EC/ha. DO NOT exceed 1200 mL FARMALINX Abacin 18 EC/ha/application	3	Spray to wet foliage to near the point of run-off. Thorough coverage and penetration into plants is essential. Preferably apply on first appearance of mites. When applied early, one application may be sufficient to give effective control however, if mite numbers exceed 3-5 mites per leaflet, apply two applications spaced 7-10 days apart. Re-apply as pest numbers indicate to a maximum of 2 sprays of FARMALINX Abacin 18 EC Insecticide/Miticide per season. If retreatment is required after 2 consecutive sprays with FARMALINX Abacin 18 EC Insecticide/Miticide, use an approved miticide from a different chemical group. Integrated Pest Control: see comments in the apple and pear section. Refer to notes on Resistance under General instruction section of this label.
Ornamentals including Roses, Chrysanthemums, Carnations and indoor foliage plants	Two Spotted Mite (<i>Tetranychus urticae</i>)	50 mL/100 L to a maximum of 1.5 L FARMALINX Abacin 18 EC/ha per application	Not required	Spray to wet foliage to near the point of run-off using at least 2,000 litres per hectare (100 litres per 500 square metres). Thorough coverage and penetration into plants is essential. Preferably apply on first appearance of mites. If applied when pest numbers are low to moderate, one application will be sufficient to give effective control, however if mites are numerous, apply a second application 7-10 days later. DO NOT use overhead irrigation within 24 hours after application. DO NOT use on Ferns and Shasta. For ornamentals not listed on the label, small test applications to assess for unexpected phytotoxicity should be made before spraying the whole crop. DO NOT use more than 2 times per season. Refer to notes on Resistance under General Instructions section of this label.

TURF

Situation	Pest	Rate	Critical Comments
Turf	Couchgrass Mite (<i>Aceria cynodonensis</i> , formerly <i>Eriophyes cynodonensis</i>)	2 L/ha or 20 mL/100 m ²	Apply FARMALINX Abacin 18 EC Insecticide/Miticide in an early curative situation (after first symptoms are apparent). Best results are achieved if applied as populations begin to build rather than at the peak of population growth. Apply in a total application volume of 300 to 500 L/ha. Good spray coverage is essential. The addition of a quality non-ionic surfactant at a rate of 0.25% v/v (1000 g a/L products ie Wet/Drop Wetter) or 0.42% v/v (600 g a/L products) such as Agral® Spray Adjuvant is essential. Apply 1 to 2 consecutive applications at 21 to 28 day intervals if population persists. Refer to Application section for detailed information.

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

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CONTINUED OVERLEAF

INSECTICIDE RESISTANCE WARNING
For insecticide resistance management FARMALINX Abacin 18 EC Insecticide/Miticide is a Group 6 Insecticide.
FARMALINX Abacin 18 EC Insecticide/Miticide may be used in conjunction with other chemical groups, including Group 6 Insecticides. FARMALINX Abacin 18 EC Insecticide/Miticide should not be applied in two consecutive seasons without an unrelated chemical being used in between. Alternate chemical groups.
FARMALINX Abacin 18 EC Insecticide/Miticide should not be applied in two consecutive seasons without an unrelated chemical being used in between. Alternate chemical groups.

COMPATIBILITY
FARMALINX Abacin 18 EC Insecticide/Miticide is compatible with Caltek Summer Spray Oil, Buffer Summer Spray Oil, Combiolux and with most commonly used insecticides and fungicides. Insecticide/Miticide is compatible with ULL formulations. Mixtures with more than one of the above are not recommended.

APPLICATION
Turf: Apply by ground boom sprayer or low pressure hand wand. To be effective FARMALINX Abacin 18 EC Insecticide/Miticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution of the correct volume.
Turfs: Apply by ground boom sprayer or low pressure hand wand. To be effective FARMALINX Abacin 18 EC Insecticide/Miticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution of the correct volume.

Mixing Instructions for Turf applications
Add the required amount of product directly to a partly filled spray tank and mix well.
Non-ionic Surfactants: Use Agral (600 g a/L) at 0.42% v/v or 420 mL/100 L spray mix.
After the required amount of product has been added, add the surfactant to the tank and mix well.

WITHOLDING PERIODS:
COTTON: DO NOT HARVEST FOR 20 DAYS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 20 DAYS AFTER APPLICATION.
SOYBEANS: DO NOT HARVEST FOR 28 DAYS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCKFEED FOR 28 DAYS AFTER APPLICATION. OBSERVE RESTRAINTS AND RESTRICTIONS FOR TANK MIX PRODUCTS.
APPLES AND PEARS: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.
DO NOT FEED TREATED PRODUCE TO LIVESTOCK FOR 14 DAYS AFTER APPLICATION.
CITRUS: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.
HOPS: DO NOT HARVEST, GRAZE OR CUT FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION.
CAPSICUMS, STRAWBERRIES AND TOMATOES: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 3 DAYS AFTER APPLICATION.
ORNAMENTALS: NOT REQUIRED WHEN USED AS DIRECTED.
DO NOT GRAZE OR CUT FOR STOCK FOOD.
TURF: DO NOT GRAZE TREATED TURF/LAWN OR FEED TURF/LAWN CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK

GENERAL INSTRUCTIONS

FARMALINX Abacin 18 EC Insecticide/Miticide is an insecticide and acaricide with contact and stomach action. FARMALINX Abacin 18 EC Insecticide/Miticide has limited plant systemic activity but exhibits translaminar movement. Good spray coverage is essential.
FARMALINX Abacin 18 EC Insecticide/Miticide is translocated into leaves and remains for several weeks offering limited residual control of target pests. Abamectin that is not absorbed into plants is quickly degraded.

APPLICATION ON COTTON

Apply by ground spraying equipment in a minimum spray volume of 100 L/ha or by fixed wing aircraft in a minimum volume of 20 L/ha. Good coverage is essential.
Air: Apply by air spray when there is a reliable cross wind to assist with good penetration into the crop canopy. Application should be carried out in the cooler parts of the day or night. Preferably use aircraft fitted with microair atomisers.
Ground: Use inter-row droppers fitted with nozzles spraying towards the crop rows. Inter-row nozzles should be level with or just below the canopy and spraying at right angles to the ground.

MIXING

Measure the required amount of FARMALINX Abacin 18 EC Insecticide/Miticide, add to the partly filled spray tank and then add the remainder of the water. Wetting agent is not required.
Mixing Instructions For Apple and Pear Applications:
FARMALINX Abacin 18 EC Insecticide/Miticide is not systemic making good coverage essential. To achieve 750 mL FARMALINX Abacin 18 EC Insecticide/Miticide + 5 L summer oil/ha apply spray at the following mixing rates:

	FARMALINX Abacin 18 EC	Summer Oil
	(Rate/100 L required)	
1000 L/ha (minimum)	75 mL	500 mL
1500 L/ha	50 mL	335 mL
2000 L/ha	37.5 mL	250 mL
2500 L/ha	30 mL	200 mL

Crop Safety: FARMALINX Abacin 18 EC Insecticide/Miticide plus summer oil has very occasionally caused slight fruit russeting on some pear varieties particularly NY 20 and other sensitive varieties when used alone or when other products are applied sequentially. A very small amount of temporary apple fruit blemishing has been associated with low water volume applications. The Directions for Use and Precautions on summer oil labels should be followed carefully. Certain conditions may apply at the occurrence of this damage. DO NOT make applications (1) when unusual spray conditions are present or expected within 24 hours after application, (2) under poor or more drying conditions or (3) with equipment that may leave large droplets on fruit after application. FARMALINX Abacin 18 EC Insecticide/Miticide plus summer oil has caused more severe fruit russeting on apples or pears before or after applications of Delan® or Captain®.
FARMALINX Abacin 18 EC Insecticide/Miticide plus summer oil has caused more severe fruit russeting on apples or pears before or after applications of Delan® or Captain®.

Mixing Instructions for Turf applications
Add the required amount of product directly to a partly filled spray tank and mix well.
Non-ionic Surfactants: Use Agral (600 g a/L) at 0.42% v/v or 420 mL/100 L spray mix.
After the required amount of product has been added, add the surfactant to the tank and mix well.

APPLICATION
Turf: Apply by ground boom sprayer or low pressure hand wand. To be effective FARMALINX Abacin 18 EC Insecticide/Miticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution of the correct volume.
Turfs: Apply by ground boom sprayer or low pressure hand wand. To be effective FARMALINX Abacin 18 EC Insecticide/Miticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution of the correct volume.
Turfs: Apply by ground boom sprayer or low pressure hand wand. To be effective FARMALINX Abacin 18 EC Insecticide/Miticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution of the correct volume.

Mixing Instructions for Turf applications
Add the required amount of product directly to a partly filled spray tank and mix well.
Non-ionic Surfactants: Use Agral (600 g a/L) at 0.42% v/v or 420 mL/100 L spray mix.
After the required amount of product has been added, add the surfactant to the tank and mix well.

APPLICATION ON COTTON
Apply by ground spraying equipment in a minimum spray volume of 100 L/ha or by fixed wing aircraft in a minimum volume of 20 L/ha. Good coverage is essential.
Air: Apply by air spray when there is a reliable cross wind to assist with good penetration into the crop canopy. Application should be carried out in the cooler parts of the day or night. Preferably use aircraft fitted with microair atomisers.
Ground: Use inter-row droppers fitted with nozzles spraying towards the crop rows. Inter-row nozzles should be level with or just below the canopy and spraying at right angles to the ground.

MIXING
Measure the required amount of FARMALINX Abacin 18 EC Insecticide/Miticide, add to the partly filled spray tank and then add the remainder of the water. Wetting agent is not required.
Mixing Instructions For Apple and Pear Applications:
FARMALINX Abacin 18 EC Insecticide/Miticide is not systemic making good coverage essential. To achieve 750 mL FARMALINX Abacin 18 EC Insecticide/Miticide + 5 L summer oil/ha apply spray at the following mixing rates:

	FARMALINX Abacin 18 EC	Summer Oil
	(Rate/100 L required)	
1000 L/ha (minimum)	75 mL	500 mL
1500 L/ha	50 mL	335 mL
2000 L/ha	37.5 mL	250 mL
2500 L/ha	30 mL	200 mL