

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

KDPc
Mectin 18EC
Insecticide / Miticide

ACTIVE CONSTITUENT: 18g/L ABAMECTIN
SOLVENT: 350g/L N-METHYL-2-PYROLIDONE

GROUP 6 INSECTICIDE

For the control of certain mites on apples, capsicums, citrus, cotton, hops, ornamentals, pears, tomatoes and strawberries; and Native Budworm on cotton.

IMPORTANT: READ THIS LEAFLET THOROUGHLY
BEFORE USING THIS PPRODUCT

APVMA No: 82498/105884

KD Plant Care Pty Ltd
 10 Abbott Street, Fairfield VIC. 3078
 Tel: (03) 9497 2822

AN AUSTRALIAN OWNED COMPANY

DIRECTIONS FOR USE
RESTRAINTS:
 DO NOT DO NOT use if rainfall is expected before spray has dried, as reduced efficacy may result.

SITUATION	PEST	RATE / HA	WHP (DAYS)	CRITICAL COMMENTS
Apples, Pears	Two Spotted Mite (<i>Tetranychus urticae</i>) European Red Mite (<i>Panonychus ulmi</i>)	750ml / ha plus 5L / ha summer oil See General Instructions for mixing rates	14	For best results, apply the product using dilute application (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). Apply the same amount of KDPC Mectin insecticide / miticide to the target crop whether spraying by dilute or concentrate spray methods. DO NOT apply this product before or after applications of Delan ¹ or Captan ¹ . In apples apply this product from 2 to 6 weeks after petal fall if monitoring shows high numbers of overwintering 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 as soon after mite numbers have reached a threshold for your area. Maximum mite control is usually reached at 7 days. Moderate to high mite populations will be controlled, but if there are no predatory mites present, re-treatment with another miticide (from another chemical group) may be necessary. Integrated pest control: The effects of abamectin on parasitic wasps and other beneficial insects in Australian orchards are not known. Studies have shown that after application of abamectin, predatory mite populations may not increase for a number of weeks, due to lack of suitable pest mite prey. Predatory mite numbers will increase with any 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.

DIRECTIONS FOR USE Cont...

SITUATION	PEST	RATE / HA	WHP (DAYS)	CRITICAL COMMENTS
Capsicums	Two Spotted Mite (<i>Tetranychus urticae</i>)	300ml / 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 and do not make more than 2 applications per crop. Refer to notes on resistance in the General Instructions section of this label.
Citrus	Broad Mite (<i>Polyhagotarsonemus latus</i>) Brown Citrus Rust Mite (<i>Tegolophus australis</i>) Citrus Rust Mite (<i>Phyllocoptera oleivora</i>)	Dilute spray: 15ml / 100ml or 25ml / 100ml plus 250ml / 100L summer oil Concentrate spray: Refer to the Application Section - Citrus	7	Apply as pest pressure indicates as a dilute spray in 3000L to 6000L water / ha. Use the higher rate when pest pressure is high. DO NOT apply more than once per season. Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying by dilute or concentrate spraying method.
Cotton (QLD, NSW & WA only) DO NOT apply to cotton under visible stress	Carmine Spider Mite (<i>Tetranychus cinnabarinus</i>) Two Spotted Mite (<i>Tetranychus urticae</i>)	300ml / ha	20	DO NOT make more than two applications to cotton per season, regardless of pest being controlled. To ensure adequate control: 1. Apply when the threshold number of mites has been reached for your region. 2. Apply when mite populations are low. If the mite population is too high at time of application, satisfactory control may not be achieved. Under high pest pressure, a second application may be required 7 to 10 days after the initial application. Thorough coverage is essential.

SITUATION	PEST	RATE / HA	WHP (DAYS)	CRITICAL COMMENTS
Cotton (QLD, NSW & WA only) cont... DO NOT apply to cotton under visible stress	Native Budworm (<i>Helicoverpa punctigera</i>)	300ml or 600ml / ha	20	DO NOT make more than two applications to cotton per season, regardless of pest being controlled. Use only when Lepton test kit results indicate that no greater than 10% <i>Helicoverpa armigera</i> are present. Use the higher rate alone or the lower rate with a suitable mixing partner. Applications should target brown eggs and newly emerged larvae (neonates). Mixed size larval populations should be avoided.
Hops	Two Spotted Mite (<i>Tetranychus urticae</i>)	1L / ha	4 weeks	Apply as a dilute spray in 1000L to 2000L water / ha, depending on crop size as pest pressure indicates. DO NOT apply more than once per season.
Strawberries	Two Spotted Mite (<i>Tetranychus urticae</i>)	100ml / 100L If spray volume is less than 600ml / ha use a minimum of 600ml of this product / ha. DO NOT exceed 1.2L of this product / ha per application	3	Spray to wet all foliage to near the point of run-off. Ensure thorough coverage and penetration into plants. Best results are obtained if application is made at the first sign of mite appearance. When applied at this time, one application may give good control. If mite numbers exceed 3 to 5 mites per leaflet, apply two applications 7 to 10 days apart. Re-apply if required but apply a maximum of 2 sprays of this product per season. If a further treatment is required, apply a product from a different chemical group. Integrated Pest Control: see instructions in Apples and Pears section above. Refer to notes on resistance under General Instructions section of this label.

SITUATION	PEST	RATE / HA	WHP (DAYS)	CRITICAL COMMENTS
Tomatoes - Trellised or Staked	Two Spotted Mite (<i>Tetranychus urticae</i>)	High volume spraying: 300ml / ha or 450ml / ha using concentrations of 60ml to 90ml / 100L	3	Spray to wet all foliage to near the point of run-off. Ensure thorough coverage and penetration into plants. Best results are obtained if application is made before build-up of mite numbers. Use the higher rate if mite numbers exceed 5 to 6 mites per compound leaf. Re-apply if required but apply a maximum of 2 sprays of this product per season. Allow at least 28 days between applications of this product. Refer to notes on resistance in the General Instructions section of this label.
	Tomato Russet Mite (<i>Aculops lycopersici</i>)			Apply as per Two Spotted Mite. The lower rate will control Tomato Russet Mites not apparent at spraying. Use the higher rate if Tomato Russet Mite is evident at time of spraying or is the main pest.
	Tobacco Leafminer (Potato Moth) (<i>Phthorimaea operculella</i>)	High volume spraying: 600ml / ha using concentrations of 120ml / 100L		Wet foliage to the point of run-off. Thorough coverage and penetration into bushes is essential. Apply at the first sign of pest activity. Re-apply as pest numbers indicate or every 7 to 10 days with a maximum of 5 applications to the crop. If mites are also a problem, DO NOT use more than 2 KDPC MECTIN insecticide / miticide sprays per crop. Refer to the notes on resistance in the General Instructions section of this label. Note: Other IPM strategies to reduce leafminer populations should be employed.

SITUATION	PEST	RATE / HA	WHP (DAYS)	CRITICAL COMMENTS
Tomatoes - Field Grown	Two Spotted Mite (<i>Tetranychus urticae</i>)	300ml or 450ml / 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. Best results are obtained if application is made before build-up of mite numbers. Use the higher rate if mite numbers exceed 5 mites per compound leaf. Re-apply if required but apply a maximum of 2 sprays of this product per season. Allow at least 28 days between applications of this product. Refer to notes on resistance in the General Instructions section of this label.
	Tobacco Leafminer (Potato Moth) (<i>Phthorimaea operculella</i>)	600ml / 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 at the first sign of pest activity. Re-apply as pest numbers indicate or every 7 to 10 days with a maximum of 5 applications to the crop. If mites are also a problem, DO NOT use more than 2 KDPC MECTIN insecticide / miticide sprays per crop. Refer to notes on resistance in the General Instructions section of this label. Note: Other IPM strategies to reduce leafminer populations should be employed.
	Tomato Russet Mite (<i>Aculops lycopersici</i>)	300ml or 450ml / ha		Apply as per Two Spotted Mite. The lower rate will control Tomato Russet Mites not apparent at spraying. Use the higher rate if Tomato Russet Mite is evident at time of spraying or is the main pest

SITUATION	PEST	RATE / HA	WHP (DAYS)	CRITICAL COMMENTS
Ornamentals including Roses, Chrysanthemums, Carnations & indoor foliage plants	Two Spotted Mite (Tetranychus urticae)	50ml / 100L to a maximum of 1.5L	NIL	Spray to wet foliage to near the point of run-off using at least 2000L water / ha (100L / 500 square metres). Thorough coverage and penetration into plants is essential. Preferably apply on first appearance of mites. When applied, when pest numbers are low to moderate, one application will be sufficient to give efficient control, however if mites are numerous, apply a second application 7 to 10 days later. DO NOT use overhead irrigation within 24 hours after application. DO NOT use on Ferns or Shasta. For ornamentals not listed on this label, small test applications to assess unexpected phytotoxicity should be made before spraying the whole crop. DO NOT use more than 2 times per season. Refer to notes on resistance in the General Instructions section of this label.

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

WITHHOLDING PERIODS:

Cotton: DO NOT HARVEST FOR 20 DAYS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 20 DAYS AFTER

APPLICATION.

Citrus: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

Hops: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER.

Apples & Pears:

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.
DO NOT FEED TREATED PRODUCT FOR 14 DAYS AFTER APPLICATION.

Capsicums, Strawberries And Tomatoes:

DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.
DO NOT FEED TREATED PRODUCE FOR 3 DAYS AFTER APPLICATION.

Ornamentals:

NOT REQUIRED WHEN USED AS DIRECTED.
DO NOT GRAZE OR CUT FOR STOCKFOOD.

Application by dilute spraying:

- Use a sprayer designed to apply high volumes of water up to 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. 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 100L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set-up and operation may also need to be changed, as the crop grows.

Application by concentrate spraying:

- 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 1500L / ha.
- Your chosen concentrate spray volume: For example 500L / ha.
- The concentration factor in this example is: 3 X (ie. 1500L / 500L = 3).
- If the dilute label rate is 15ml / 100L, then the concentrate rate becomes 3 X 15 that is 45ml / 100L of concentrate spray.
 - The chosen spray volume, amount of product per 100L 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.

PRECAUTIONS

Re-entry period:

Allow the spray to dry on the foliage before re-entry to treated areas.

DO NOT allow entry into treated areas in glasshouses for 24 hours after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow length PVC gloves.

PROTECTION OF CROP, NATIVE AND OTHER NON-TARGET PLANTS:

Drift warning: DO NOT apply under weather conditions, or from spraying equipment, that may cause spray drift onto nearby susceptible plants / crops, cropping lands or pastures.

PROTECTION OF LIVESTOCK: Dangerous to bees. **DO NOT** spray any plants in flower while bees are foraging.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:

Dangerous to fish and other aquatic organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Studies indicate that when Abamectin comes into contact with soil, it readily and tightly binds to the soil and becomes inactive over time.

GENERAL INSTRUCTIONS:

KDPC MECTIN 18EC Insecticide / Miticide is not systemic, but moves quickly into leaves following application. It is important that thorough coverage is achieved so that the maximum amount of product can be deposited on the leaf surface for uptake and subsequent ingestion by sucking mites. Product that is not absorbed by leaves is quickly degraded.

Resistance

It is known that early development of mite resistance may occur if one particular miticide from one particular chemical group are continually used. For this reason it is recommended that KDPC MECTIN Insecticide / Miticide be applied no more than twice in one season, preferably only once per season.

A second application is only recommended where mite pressure is very high. It is also recommended to alternate this product with miticides from a different chemical group. For further information contact your local supplier, KD Plant Care Pty Ltd representative or local department of agriculture agronomist.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management KDPC MECTIN Insecticide / Miticide is a Group 6 miticide and insecticide. Some naturally occurring insect biotypes resistant to KDPC MECTIN Insecticide / Miticide and other Group 6 miticides and insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the mite and insect population if KDPC MECTIN Insecticide / Miticide or other Group 6 miticides and insecticides are used repeatedly.

The effectiveness of KDPC MECTIN Insecticide / Miticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, KD Plant Care Pty Ltd accepts no liability for any losses that may result from the failure of KDPC MECTIN Insecticide / Miticide to control resistant mites. KDPC MECTIN Insecticide / Miticide may be subject to specific resistance management strategies. For further information contact your supplier, KD Plant Care Pty Ltd representative or local agricultural department agronomist.

It is recommended that this product be applied no more than the following amount of times per season / crop, and that it is not used consecutively except where a two spray schedule is specifically recommended:

Cotton: No more than twice in one season and preferably only once per season. A second application is only recommended where mite pressure is very high.
Apples, Capsicums, Citrus, Hops, Pears: One spray per season.
Tomatoes: Two sprays per season if mites are present. Five sprays per season if mites are **NOT** present.
Strawberries: Two sprays per season.

KDPC MECTIN Insecticide / Miticide should not be applied in two consecutive seasons on crops without an unrelated chemical being used in between. Alternate this product with approved miticides from other chemical groups.

For further information contact your local supplier, KD Plant Care Pty Ltd representative or local department of agriculture agronomist.

CROP MONITORING

It is essential to carry out regular crop monitoring of mite levels, (every 2 to 3 days for cotton and every 3 to 5 days for other crops), to ensure the product is applied at the correct timing.

STORAGE AND DISPOSAL

Store below 30°C (Room temperature). Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap.

Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar containment management site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with the relevant Local, State or territory government regulations. DO NOT burn empty containers or product.

SAFETY DIRECTIONS

Poisonous if absorbed by skin contact or swallowed. Will damage eyes. Will irritate skin. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. For space applications, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves, goggles and a half face respirator with dust cartridge or canister. If product in eyes, wash it out immediately with water. 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, goggles, respirator (and if rubber wash with detergent and warm water) and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor, or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, **DO NOT** induce vomiting. Give a glass of water. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from the supplier.

Conditions of sale

The product as supplied is of high grade and believed to be suitable for any purpose for which it is expressly supplied and must be used in accordance with the directions for use given on this label. No responsibility is accepted in respect of this product, save those non excludable conditions implied by the Trade Practices Act or any applicable State Legislation.

GHS Statements	
Harmful by inhalation and if swallowed. Causes skin irritation, and serious eye irritation. May cause respiratory irritation. May damage the unborn child. May cause damage to the Central Nervous System through prolonged or repeated exposure.	

In a Transport Emergency Dial 000 Police or Fire Brigade	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (ABAMECTIN 2%)
For Specialist Advice 03 9497 2822 Australia Wide	UN NO: 3082 Packing Group III



MIXING INSTRUCTIONS FOR APPLES AND PEARS

To achieve 750ml this product + 5L Summer oil / ha, apply spray at the following mixing rates:

	This Product	Summer Oil
	(Quantity per 100L Required)	
1000L / ha (minimum)	75ml	500ml
1500L / ha	50ml	335ml
2000L / ha	37.5ml	250ml
2500L / ha	30ml	200ml

MIXING

Partially fill the spray tank with water, add the required amount of this product, then add the remainder of the product. If oil is recommended then add this after the KDPC MECTIN 18EC Insecticide / Miticide is mixed well. A wetting agent is **NOT** required.

CROP SAFETY

A mixture of this product with summer oil has very occasionally caused slight fruit russetting on some pear varieties, particularly Anjou 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.

DO NOT apply KDPC MECTIN 18EC Insecticide / Miticide to apples or pears before or after applications of Delan¹ or Captan¹. The label instructions on the summer oil label must be strictly followed.

Conditions which may contribute to crop damage are:

- Unusually hot conditions present or expected within 24 hours of application.
- Poor or slow drying conditions.
- Application with equipment that may leave large droplets on fruit after application.

COMPATIBILITY

This product is compatible with most commonly used insecticides.

DO NOT apply with ULV formulations.

APPLICATION INSTRUCTIONS FOR COTTON

This product may be applied by ground spraying equipment or by fixed wing aircraft. Apply in a minimum of 20L water per hectare. Ensure good coverage.

Ground application: Apply with inter-row droppers fitted with nozzles spraying towards the cotton rows. The inter-row nozzles should be level with or just below the canopy and spraying at right angles to the ground.

Aerial application (fixed wing): Apply in the cooler parts of the day or night when there is a reliable cross wind to assist with good penetration into the crop canopy. Preferably use aircraft fitted with Micronair atomisers.

APPLICATION INSTRUCTIONS FOR CITRUS

To be effective this product requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution at the correct volume. The same quantity of product per hectare should be used when spraying either with dilute or concentrate spraying.