

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

ABACHEM
MITICIDE / INSECTICIDE

ACTIVE CONSTITUENT: 18g/L ABAMECTIN
SOLVENT: 265g/L N-METHYL PYRROLIDONE
58g/L LIQUID HYDROCARBON

GROUP	6A	INSECTICIDE
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For the control of pest mites on pears, apples, tomatoes, strawberries, citrus, hops and ornamentals. For the control of pest mites and native budworm on cotton. As specified in the directions for use table.

20 Litre

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DIRECTIONS FOR USE:**Restrictions:****DO NOT use if rainfall is expected before spray has dried as reduced efficacy may result.****DO NOT overhead irrigate within 24 hours after application.**

SITUATION	PEST	RATE	WITHOLDING PERIOD	CRITICAL COMMENTS
Cotton	Two spotted mite <i>(Tetranychus cinnabarinus)</i> Carmine mite <i>(Tetranychus cinnabarinus)</i>	300 mL /ha	20 days	Do NOT make more than two applications to cotton per season, regardless of the pest being controlled. Apply by ground spraying equipment or fixed winged aircraft in a minimum volume of 20L/ha. Good 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. Refer to notes on resistance under General Instructions section of this label.
	Native Budworm <i>(Helicoverpa punctigera)</i>	300mL/ha Or 600mL/ha		Do not make more than two applications to cotton per season, regardless of the pest being controlled. Use only when Lepton test kit results indicate no greater than 10% <i>Helicoverpa punctigera</i> are present. Use the higher rate alone, or the lower rate with a suitable mixing partner. Applications should be targeted at brown eggs and newly emerged larvae (neonates). Mixed sized larval populations should be avoided.
Pears Apples	Two spotted mite <i>(Tetranychus cinnabarinus)</i> European red mite <i>(Panonychus ulmi)</i>	750mL/ha Plus 5L/ha Summer oil, see general Instructions	14 days	Apply as dilute or concentrated sprays but in no less than 1000l/ha. Good coverage is Essential. Use a high quality summer spraying oil and follow label instructions. In apples apply Abachem 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 Abachem takes about 7 days to reach maximum mite control. Abachem will control moderate to high mite populations but in the absence of predatory mites (see Integrated Pest Management below), re-treatment with another miticide may be necessary. If re-treatment 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 Abachem on parasitic wasps and other beneficial Insects in Australian orchards are not fully known. Studies have shown that after application of Abachem, 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.
Tomatoes - Trellised or Staked Tomatoes	Two spotted mite <i>(Tetranychus cinnabarinus)</i> Tomato russet mite <i>(Aculops lycopersici)</i>	High volume Spraying: 300-450 mL/ha ABACHEM using Concentrations of 60-90 mL/100L'	3 days	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 ABACHEM and do not use more than 2 ABACHEM sprays per crop. Refer to notes on resistance under General Instructions section of this label. 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.

DIRECTIONS FOR USE (Con't)

SITUATION	PEST	RATE	WITHOLDING PERIOD	CRITICAL COMMENTS
Strawberries	Two spotted mite (<i>Tetranychus cinnabarinus</i>)	100mL/100L. If spray volume is less than 600L/ha use a minimum of 600mL/ha ABACHEM. Do not exceed 1200mL/ha ABACHEM per application.	3 days	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 leaf, apply two applications spaced 7-10 days apart. Re-apply as pest numbers indicate to a maximum of 2 sprays of ABACHEM per season. If treatment is required after 2 consecutive sprays with ABACHEM, 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 cinnabarinus</i>)	50mL / 100 L To a maximum of 1.5L ABACHEM / ha per application	Not Required	Spray to wet foliage to near point of run-off using at least 2000 litres per hectare (100 litres per 500 square meters). 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.
Citrus	Brown Citrus Rust Mite (<i>Tegolophus australis</i>) Citrus Rust Mite (<i>Phyllocoptera oleivora</i>) Broad Mite (<i>Polyhagotar sonemus latus</i>).	15-25 mL / 100 L plus 250mL / 100 L Summer oil	7 Days	Apply as pest pressure indicates as a dilute spray in 3000 to 6000 L water per hectare. Use the higher rate under conditions of high pest pressure. Make no more than one application per season.
Hops	Two spotted mite (<i>Tetranychus cinnabarinus</i>)	1.0 L/ha	28 Days	Apply as pest pressure indicates as a dilute spray in 1000 to 2000 L water per hectare, depending on crop size. Make no more than one application per season.

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

WITHHOLDING PERIOD:

COTTON: DO NOT harvest for 20 days after application. DO NOT graze or cut for stock feed for 20 days after application.

APPLES, PEARS: DO NOT harvest for 14 days after application. DO NOT feed treated produce to livestock for 14 days after application.

STRAWBERRIES, TOMATOES: DO NOT harvest for 3 days after application. DO NOT feed treated produce to livestock for 3 days after application.

ORNAMENTALS: DO NOT cut or graze for stock food.

CITRUS: DO NOT harvest for 7 days after application.

HOPS: DO NOT harvest, graze or cut for stockfeed for 4 weeks after application.

GENERAL INSTRUCTIONS:

ABACHEM Miticide / Insecticide is for the control of pest mites on pears, apples, tomatoes, strawberries and ornamentals, and for the control of pest mites and native budworm on cotton.

INSECTICIDE RESISTANCE WARNING

GROUP	6A	INSECTICIDE
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For insecticide resistance management ABACHEM MITICIDE / INSECTICIDE is a Group 6A insecticide.

Some naturally occurring insect biotypes resistant to ABACHEM MITICIDE / INSECTICIDE and other Group 6A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if ABACHEM MITICIDE / INSECTICIDE and other Group 6A insecticides are used repeatedly. The effectiveness of ABACHEM MITICIDE / INSECTICIDE on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, ChemAg Pty Ltd accepts no liability for any losses that may result from failure of ABACHEM MITICIDE / INSECTICIDE to control resistant insects. ABACHEM MITICIDE / INSECTICIDE may be subject to specific resistance management strategies.

Therefore, ABACHEM should not be applied more than the following number of times per season/crop and should not be used consecutively except where a two-spray schedule is specifically recommended.

Apple, Pears:	one spray per season
Citrus:	one spray per season
Hops:	one spray per season
Tomatoes:	two sprays per crop
Cotton, Strawberries, Ornamentals	two sprays per season

Alternate ABACHEM with approved miticides from other chemical groups. For further information contact your local supplier or local agricultural department agronomist.

CROP MONITORING:

Effective control depends upon regular monitoring of crops. Check crops regularly (every 3-5 days) during the season.

APPLICATION ON COTTON:

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 Micronair atomisers.

Ground: Use inter-row droppers fitted with nozzles spraying towards the cotton 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 ABACHEM, add to the partly filled spray tank, and then add the remainder of the water. If oil is recommended, add this after the ABACHEM is well mixed. Wetting agent is not required.

MIXING INSTRUCTIONS FOR APPLE AND PEAR APPLICATIONS:

To achieve 750mL ABACHEM plus 5L summer oil per ha, apply spray at the following mixing rates:

WATER	ABACHEM (RATE PER 100L)	SUMMER OIL (RATE PER 100L)
1000L/ha (minimum)	75mL	500mL
1500L/ha	50mL	335mL
2000L/ha	37.5mL	250mL
2500L/ha	30mL	200mL

COMPATIBILITY:

ABACHEM is compatible with most commonly used insecticides and fungicides: DO NOT apply with ULV formulations.

CROP SAFETY:

ABACHEM plus Summer Oil may very occasionally cause slight 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 may be associated with low water volume applications. The Directions for Use and Precautions on summer oil labels should be followed carefully. Certain conditions may play a part in the occurrence of this damage. DO NOT make applications (1) when unusually hot conditions are present or expected within 24 hours after application, (2) under poor or slow drying conditions, or (3) with equipment that may leave large droplets on fruit after application.

PRECAUTIONS:

Re-entry Period: Under field conditions the spray should be allowed to dry on the foliage before re-entry into the treated areas.

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

STORAGE AND DISPOSAL:

Store in the closed original container in a well-ventilated area, as cool as possible. 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 local authority landfill. If no landfill is available, bury the containers below 500mm 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.

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

SAFETY DIRECTIONS

Poisonous if absorbed by skin contact or swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container, preparing spray and using the prepared spray, wear cotton overall buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. For space applications wear cotton overall buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles and half facepiece respirator with dust cartridge or canister. If product in eyes, wash it out immediately with water. After use and before eating, or smoking, 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 131126. If swallowed, and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF. If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

MATERIAL SAFETY DATA SHEETS (MSDS)

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy phone 1800 171799.

CONDITIONS OF SALE:

“ChemAg Pty Ltd shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on ChemAg’s skill of judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of ChemAg has any authority to add to or alter these conditions”.

Correct Shipping Name	PESTICIDES, LIQUID TOXIC, N.O.S.
UN Number	2092
Class and Subsidiary Risk	6.1
Packaging Group	III
Hazchem Code	2XE
In an emergency DIAL 000 Police or Fire Brigade	

{TOXIC 6 DIAMOND}

NRA Approval Number: 53325/1000

Batch Number:

Date of Manufacture: