

POISON

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

Pyrinex[®] Super Insecticide/Miticide

ACTIVE CONSTITUENT:

400 g/L CHLORPYRIFOS

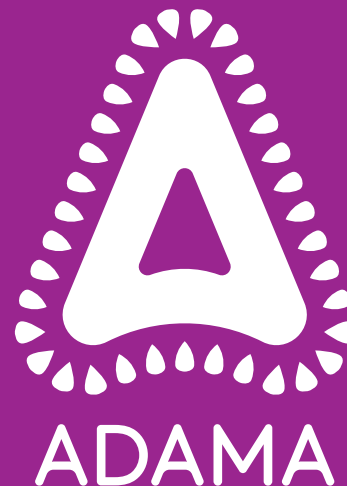
(an anti-cholinesterase compound)

20 g/L BIFENTHRIN

SOLVENT: 471 g/L LIQUID HYDROCARBON

GROUP 1B|3A INSECTICIDE

For the control of certain insect pests of broadacre crops, cotton, sugarcane and tomatoes as specified in the Direction for Use Tables.



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CONTENTS: 1 - 1000 L

DIRECTIONS FOR USE:

RESTRAINTS

DO NOT apply by open cab equipment.

DO NOT apply by aircraft.

DO NOT spray during flowering or within 7 days prior to flowering. Post-flowering applications should only commence after flowering has completely finished and bee hives are not likely to be reached by spray drift.

1. BROADACRE CROPS AND PASTURES

DO NOT apply using ULV application.

CROP	PEST	STATE	RATE	CRITICAL COMMENTS
Cotton	False Wireworm, Wireworm, Sugarcane Wireworm	Qld, NSW, WA only	6.25-18.75 mL/100m of row OR 625 mL to 1.88 L/ha for row spacing of 1 metre	Apply as a spray directed into the furrow at planting. Use a spray nozzle behind the seed tube that will deliver a coarse spray in a total volume of 60-100 L/ha. The spray should cover a 10 cm band over the seed and contact the bottom, sides and all soil drawn into the furrow at closure before soil is brought in behind covering tyres in front of the press wheel. Use higher rate with extreme population numbers. If row spacing varies from 1 m then apply at the mL/100 m of row use rate.
Canola, Subterranean clover, Clover, Barley, Lucerne, Wheat	Redlegged Earth Mite (including synthetic pyrethroid resistant biotypes), Brown Pasture Looper, Lucerne Flea	All states	250 mL to 500 mL/ha	Apply to bare soil after conventional cultivation and/or sowing or onto well grazed or sprayed pasture after direct drilling. Treat infested paddocks after sowing and before or soon after seedling emergence. Use the higher rate on heavier infestations and for longer residual protection. Apply as a broadcast ground rig application in a total water volume of 50-200 L/ha.
	Blue Oat Mite, Pasture Webworm		500 mL/ha	
	Bryobia Mite		1 L/ha	

CROP	PEST	STATE	RATE	CRITICAL COMMENTS
Field peas, Lupins	Redlegged Earth Mite (including synthetic pyrethroid resistant biotypes), Brown Pasture Looper, Lucerne Flea	All states	250 mL to 500 mL/ha	Apply to bare soil after conventional cultivation and/or sowing or onto well grazed or sprayed pasture after direct drilling. Treat infested paddocks after sowing and before or soon after seedling emergence. Use the higher rate on heavier infestations and for longer residual protection. Apply as a broadcast ground rig application in a total water volume of 50-200 L/ha.
	Blue Oat Mite, Pasture Webworm		500 mL/ha	
Canola	Lucerne Flea	All states	175 mL to 375 mL/ha	Apply to emerged crops when pests appear in large numbers and before damage occurs. A second application may be required after 14 days if a second hatching occurs. Avoid spraying when pests are sheltering. Spray when at least 2.5 cm cover of crop is present. DO NOT spray if rain is imminent. Use the higher rate on heavier infestations and for longer residual protection.
	Vegetable Weevil		500 mL to 1 L/ha	
	Cutworm	SA, Vic only	875 mL/ha	Apply to emerged crops immediately after infestation is observed and before larvae are 7 mm long. After spraying, monitor crops and apply a second application if required after a 7-10 day interval, depending on the infestation level, rate of crop growth and insect checks.
		Qld, NSW, ACT, Tas, WA, only	1 L/ha	
Balaustium Mite	All States	1 L /ha	Apply to emerged crops after infestation is observed. After spraying, monitor crops and apply a second application if required after a minimum 14 day interval.	
Lucerne Seed Crops	Lucerne Leafroller	Qld, NSW, ACT only	375 mL to 500 mL/ha	DO NOT treat lucerne seed crops for alfalfa sprout production. Apply when pests first appear. Use the high rate under heavy insect pressure or if larvae exceed 1.5 cm in length.
	Webspinner Caterpillar		875 mL/ha	DO NOT treat lucerne seed crops for alfalfa sprout production. Spray as pests appear.
	Bluegreen Aphid	NSW, ACT only	250 mL to 375 mL/ha	DO NOT treat lucerne seed crops for alfalfa sprout production. Spray when pests first appear. Use the high rate when large numbers present. Seedling lucerne, medics: Spray when 1-2 aphids are observed per plant. Established lucerne, medics: Spray when 20-40 aphids are observed per stem. Apply in minimum 100 L water per ha.
	Spotted Alfalfa Aphid	Qld, Vic, Tas, SA, WA only		
	Pea Aphid	Qld, NSW, ACT, Vic, Tas, SA only		
	Sitona Weevil	NSW, ACT, Vic, Tas, SA, WA only	440 mL/ha	DO NOT treat lucerne seed crops for alfalfa sprout production. Spray when adults appear in damaging numbers from October to December or in Autumn.
	Lucerne Flea	All states	175 mL to 375 mL/ha	Spray when pests appear in large numbers. Avoid spraying when pests are sheltering. Spray when at least 2.5 cm cover of crop is present. DO NOT spray if rain is imminent. Use the higher rate on heavier infestations and for longer residual protection.
Lucerne (young plants)	Cutworm	Qld, NSW, ACT, Tas, WA only	1.13 L in a minimum of 100L water	Apply immediately after infestation is observed. Apply a single follow-up treatment if required.
		Vic only	875 mL in a minimum of 100L of water	
	Cutworm (<i>Agrotis munda</i> and <i>A. infusa</i>)	SA only		

2. OTHER CROPS

CROP	PEST	STATE	RATE	CRITICAL COMMENTS
Sugarcane	Sugarcane Wireworm (<i>Agrypnus spp.</i>)	Qld, NSW, ACT only	1.88 L/ha	Apply as a low pressure (less than 35 kPa) or gravity spray into the furrow at planting. Use a spray nozzle which will deliver a coarse spray in a total volume of 60-100 L/ha in a band 20-30 cm wide over the base of the furrow on top of the setts and before soil cover is brought in over the sett.
Tomatoes (Field tomatoes only)	Green Peach Aphid	Qld, Vic, Tas, SA, WA only	1.25 L/ha OR 125 mL per 100L water	Apply as aphid build-up is first noticed. Use 1000 L/ha of water on larger plants. Resistance Management Use in rotation with other registered insecticides that have a different mode of action. DO NOT apply more than two applications of PYRINEX® SUPER per season. DO NOT apply consecutive applications of PYRINEX® SUPER or an insecticide with the same mode of action as PYRINEX® SUPER within or between seasons.
	Green Vegetable Bug	Tas, SA, WA only	1.88 L to 2.5 L/ha OR 188 mL to 250 mL per 100L water	Apply at first sign of bug activity. Use high rate under heavy pest pressure. DO NOT apply more than two applications of PYRINEX® SUPER per crop.
	Native Budworm (<i>Helicoverpa punctigera</i>)	Tas only		Apply from flowering on a 7-10 day schedule. Apply as indicated by field monitoring and timed to coincide with egg hatch and when small larvae up to 5 mm are present. DO NOT apply to control <i>Helicoverpa armigera</i> larger than 5 mm in length.
	Tomato Grub (<i>H. armigera</i>)	Qld, NSW, ACT, Vic, Tas, WA only		Use the high rate and shorter interval when pest infestation is more severe and when increased residual protection is required. Resistance Management DO NOT apply more than two applications of PYRINEX® SUPER per crop. DO NOT apply consecutive applications of PYRINEX® SUPER. Apply in rotation with non-synthetic pyrethroid and organophosphate insecticides.
	Wingless Grasshopper	NSW, ACT, Vic, Tas, SA only	625 mL/ha water	Spray areas of crop infested with grasshoppers. Also apply as a barrier across the line of advance, when grasshoppers are invading the crop.
	Whitefly (<i>Trialeurodes vaporariorum</i>)	Qld, NSW, ACT, Vic, Tas, SA, WA only	150 mL per 100L water	Apply as indicated by pest incident and repeat as necessary. Use a total spray volume of 2500 L/ha. Resistance Management DO NOT apply more than 2 applications of PYRINEX® SUPER per crop. DO NOT apply consecutive applications of PYRINEX® SUPER or an insecticide with the same mode of action as PYRINEX® SUPER within or between seasons.
	Silverleaf Whitefly	Qld, NSW, NT, WA only	250 mL per 100L water OR 2.5 L/ha	Apply as indicated by field checks before populations reach damaging levels. When applying as a dilute spray use a minimum water volume of 500L/ha increasing to 1500L/ha as crops grow. Thorough coverage of all leaf surfaces is important to obtain good control. The adult stage of silverleaf whitefly should be targeted. Do not spray crops with a high population of the juvenile stages of silverleaf whitefly unless using with another insecticide that is effective against these stages. Resistance Management Use PYRINEX® SUPER in rotation with insecticides from at least 2 other insecticide groups that are registered or permitted for use against silverleaf whitefly in tomatoes. DO NOT apply consecutive applications of PYRINEX® SUPER or an insecticide with the same mode of action as PYRINEX® SUPER within or between seasons. DO NOT apply more than 2 applications of PYRINEX® SUPER per crop. If an approved Resistance Management Strategy is in place for a particular area (e.g. Silverleaf Whitefly in the Burdekin and Bowen Districts of central Queensland), this should be followed.

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 4 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCKFOOD.

DO NOT FEED COTTON TRASH TO LIVESTOCK.

SUGARCANE:

DO NOT HARVEST 7 DAYS AFTER APPLICATION.

GRAZING WHP NOT REQUIRED WHEN USED AS DIRECTED.

CANOLA, SUBTERRANEAN CLOVER, CLOVER, FIELD PEAS, LUPINS, LUCERNE, WHEAT, BARLEY:

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.

WHEAT, BARLEY, CANOLA, FIELD PEAS, LUPINS, LUCERNE:

DO NOT HARVEST 10 DAYS AFTER APPLICATION.

TOMATOES:

DO NOT HARVEST 3 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

PYRINEX® SUPER is a contact and residual insecticide/miticide. It can be used as a protective treatment when applied at regular intervals or as a knockdown treatment to control existing pests. Best results are obtained when PYRINEX® SUPER is applied before pest populations build up to damaging levels. This product is not suitable for use in Integrated Pest Management (IPM) programme where mite predators are established and providing effective mite control.

APPLICATION

Ground Application

Applications should be made as a fine spray preferably using hollow cone nozzles and a droplet size of 150 to 200 microns. The application volume will depend on the type of crop to be treated. The following are suggested:

Low volume broadcast applications to – e.g. cereals, canola, lucerne, subterranean clover: 50-200 L/ha.

Low volume row crops applications to cotton, tomatoes: 50-200 L/ha.

High volume applications to row crops – e.g. trellised tomatoes:

200-1000 L/ha except as noted in critical comments. Use 200 L/ha from transplanting increasing to 1000 L/ha at maturity.

In Furrow Application

Apply as a band spray to the open furrow at planting. Spray the entire furrow width using a nozzle located directly behind the seed tube. Ensure all spray is directed into the furrow contacting bottom, sides and all soil drawn into the furrow at closure.

Use a minimum of 20 L of water/ha. Use the higher rate under extreme population numbers.

MIXING

Add the required amount of product slowly to water in the spray tank whilst stirring or agitating. Agitate mixture during spraying.

COMPATIBILITY

PYRINEX® SUPER is compatible with a range of, insecticides, miticides, and fungicides. As formulations of other manufacturers' products are beyond the control of Adama Australia Pty. Ltd., all mixtures should be tested prior to mixing commercial quantities.

SURFACTANTS

Additional surfactant may only be necessary on hard to wet plants and in high volume situations. Wetspay® 1000 is recommended at label rates.

INSECTICIDE RESISTANCE WARNING

PYRINEX® SUPER is a Group 1B and 3A insecticide. Some naturally occurring insect biotypes resistant to PYRINEX® SUPER and other Group 1B and 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if PYRINEX® SUPER or other Group 1B or 3A insecticides are used repeatedly. The effectiveness of PYRINEX® SUPER on resistant individuals could be significantly reduced.

Since the occurrence of resistant insects is difficult to detect prior to use, Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of PYRINEX® SUPER to control resistant insects. PYRINEX® SUPER may be subject to specific resistance management strategies. For further information contact your local supplier, Adama representative or local agricultural department agronomist.

PROTECTION OF LIVESTOCK, WILDLIFE, FISH AND ENVIRONMENT

HIGHLY TOXIC TO BIRDS AND REPTILES. VERY HIGHLY TOXIC TO FISH AND AQUATIC INVERTEBRATES.

DO NOT contaminate streams, rivers or waterways with the chemical or used container. DO NOT contaminate food, feed or domestic water supplies. DO NOT re-apply to the same crop within 7 days (unless specifically recommended in the directions for use). Spray drift may occur under adverse meteorological conditions or from certain spray

equipment. DO NOT allow spray to drift onto sensitive areas including, but not limited to, natural streams, rivers or waterways and human dwellings.

DO NOT apply if heavy rains or storms that are likely to cause surface run-off are forecast in the immediate area within two days of application. DO NOT apply when irrigating, or to waterlogged soil, or while water remains on the surface or in furrows, unless tailwater is captured on farm. DO NOT allow contaminated runoff water from treated paddocks to enter adjacent areas or water bodies.

Run-off contaminated by irrigation events (tailwater) and a 25 mm rain storm should be captured on farm for two days after application.

BEE SAFETY

Highly toxic to bees. Will kill bees foraging in the crop to be treated or in hives which are over-sprayed or reached by spray drift. Residues may remain toxic to bees for several days after application. Bee brood development may be harmed by exposure to residues transported into the hive by foraging bees, overspray or spraydrift.

DO NOT spray any plants in flower within 7 days prior to the start of flowering.

RE-ENTRY PERIOD

DO NOT allow entry into treated crops until spray deposits have dried. If prior entry is required, limit duration of entry and wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), chemical resistant gloves and chemical resistant footwear. Clothing must be laundered after each day's use.

STORAGE AND DISPOSAL

Keep out of reach of children. 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.

110 L: Store in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the drum to the point of purchase. The drum remains the property of Adama Australia Pty. Ltd.

1000 L: Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Adama Australia Pty. Ltd. should be advised immediately. This minibulk container is reusable and remains the property of Adama Australia Pty. Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to Adama Australia Pty. Ltd. for cleaning, relabelling and refilling.

SMALL SPILL MANAGEMENT

Wear appropriate clothing and protective equipment whilst cleaning up small spills (see SAFETY DIRECTIONS). Treat spill with an absorbent material such as earth, sand or granular clay. Sweep up contaminated material and place in a refuse vessel for disposal. If spilled inside a building, wash contaminated surfaces to deactivate the chlorpyrifos with a dilute solution of bleach (sodium hypochlorite), prepared according to the bleach label instruction. Dispose of the contaminated material in accordance with STORAGE AND DISPOSAL.

SAFETY DIRECTIONS

Product is poisonous if absorbed by skin contact or inhaled or swallowed. Harmful if inhaled. Poisonous if swallowed. May irritate the eyes and skin. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container and preparing and using the spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length chemical resistant gloves, goggles and chemical resistant footwear. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product spray on skin, immediately wash area with soap and water. 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 and goggles and 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 131126. 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. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MSDS

If additional hazard information is required refer to the Material Safety Data Sheet. A material safety data sheet for PYRINEX® SUPER Insecticide/Miticide is available from adama.com or call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of PYRINEX® SUPER Insecticide/Miticide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd., regarding its suitability, fitness or efficiency for any purposes for which it is used by the buyer, whether in accordance with the Directions for Use or not. Adama Australia Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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