

**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**  
**ORGANOPHOSPHATE CONTAINING SUBSTANCE**



**ADAMA**

# **PYRINEX<sup>®</sup> INSECTICIDE**

GROUP	<b>1</b>	INSECTICIDE
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**For control of various insect pests in certain agricultural and horticultural crops**

**READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING**

**Active Ingredient:**

Contains 480 g/L CHLORPYRIFOS in the form of an emulsifiable concentrate, also contains 465 g/L XYLENE

ADAMA New Zealand Limited  
Level 1, 93 Bolt Road  
Tahunanui, Nelson 7011  
PO Box 1799, Nelson 7040  
New Zealand  
Telephone 03 543 8275  
www.adama.com

NET CONTENTS  
**5 L, 10 L,  
20 L**

**REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.****HAZARD CLASSIFICATIONS: 3.1C, 6.1C, 6.3A, 6.4A, 6.8B, 6.9A, 9.1A, 9.2B, 9.3.A, 9.4A****THIS PRODUCT IS RESTRICTED TO WORKPLACES ONLY.****PCBU RESPONSIBILITIES**

A PCBU with management or control of work using this substance must ensure that every worker who uses, handles, manufactures, or stores this hazardous substance (including hazardous waste) is, before the worker is allowed to carry out or supervise work involving those substances, provided with adequate information, training and instruction. This includes the use of personal protective equipment to be used to minimise risks to the health and safety of workers when carrying out work using this substance.

**QUALIFICATIONS REQUIRED FOR APPLICATION OF CLASS 9 SUBSTANCES**

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified, or must receive guidance and, if required, assistance from a suitably qualified person.

*Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for a list of suitable qualifications.*

**RECORD KEEPING**

Where 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. *Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for details of information that must be recorded.*

**DANGER****Flammable liquid and vapour.****Toxic if swallowed, in contact with skin or inhaled.****Causes skin irritation.****Causes serious eye irritation.****Suspected of damaging fertility or the unborn child.****Causes damage to organs through prolonged or repeated exposure.****Very toxic to aquatic life.****Toxic to the soil environment.****Very toxic to terrestrial vertebrates.****Very toxic to terrestrial invertebrates.****HANDLING PRECAUTIONS**

Keep out of reach of children.

Do not eat, drink or smoke while using.

Keep away from heat, sparks and open flames. No smoking.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe spray mist or vapours.

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

Wash exposed skin thoroughly after handling.

**EQUIPMENT**

A PCBU with management or control of work using this substance must ensure that equipment used to handle this substance retains the substance, without leakage, at all of the temperatures and pressures at which the equipment is to be used; and dispenses or applies the substance, without leakage, at a rate and in a manner that the equipment is designed for. The PCBU must ensure that the equipment is accompanied by documentation that is readily available and readily understandable about the use and maintenance of the equipment.

**STORAGE**

Store locked up in the original, tightly closed container in a cool, dry, well-ventilated place, out of direct sunlight and away from stockfeed or foodstuffs. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. In case of fire use dry chemical, water spray, foam or carbon dioxide for extinction.

Store in accordance with NZS 8409 Management of Agrichemicals. Secondary containment and emergency response plans are required where 100 L or more of this product are stored. Refer to the product SDS for further information.

**TRANSPORT**

Do not carry packages greater than 1 L of this product on passenger service vehicles.

#### **SHELF LIFE**

When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

#### **PERSONAL PROTECTION**

When mixing or applying wear appropriate protective clothing including impervious, elbow-length gloves and eye protection such as goggles or face shield. Remove protective clothing and wash hands and face before meals and after work. Contaminated work clothing should not be allowed out of the workplace.

#### **SPILLAGE**

Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Wear appropriate protective clothing as in the personal protection section of this label to clean up spills. Absorb spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place in waste containers. Wash area with water and alkaline detergent. Then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved landfill.

#### **DISPOSAL**

**Container Disposal** - Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and bury in a suitable landfill. Avoid contamination of any water supply with product or empty container.

**Product Disposal** - Dispose of this product only by using according to the label or through the Agrecovery® Chemical Recovery service or other approved facility.

#### **FIRST AID**

**For advice or if you feel unwell or are exposed or concerned, contact the National Poisons Centre 0800 POISON (0800 764 766) or doctor immediately.**

**IF SWALLOWED:** Rinse mouth. Immediately call a POISON CENTRE or doctor.

**IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor.

**IF ON SKIN:** Immediately remove contaminated clothing. Wash with plenty of soap and water. Call a POISON CENTRE or doctor. Wash contaminated clothing before reuse.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

#### **CONDITIONS OF SALE**

ADAMA New Zealand Limited will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of ADAMA New Zealand Limited is limited to the replacement of the goods or (at the option of ADAMA New Zealand Limited) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to ADAMA New Zealand Limited within thirty days of delivery.



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Label

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See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR000225  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls

Pyrinex is a registered trademark of an ADAMA Group Company.



**EMERGENCY RESPONSE**  
(All hours)  
Ring from anywhere in New Zealand  
**0800 734 607**

In a Transport  
Emergency  
Phone 111  
Police or Fire

Batch Number:  
Date of Manufacture:  
Expiry date:

*Bar code to be inserted*

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#### **SAFETY DATA SHEET**

A Safety Data Sheet for this product is available from [www.adama.com](http://www.adama.com) or ADAMA New Zealand Limited on request. Call 03 543 8275.

#### **DIRECTIONS FOR USE**

**It is an offence to use this product on animals.**

#### **EPA Controls**

- The person applying this substance must not cause adverse effects beyond the boundary of the treated property and must also avoid adverse effects from spray drift occurring. Mitigation measures employed must be recorded as part of the application records.
- Do not apply onto or into water.
- Maximum application rate: 3.125 L/ha
- This product is toxic to bees. Do not apply this product to any plant or tree likely to be visited by bees:
  - a) at the time of application; or
  - b) immediately after application until spray has dried; or
  - c) in areas where bees are foraging.
- For wide-dispersive (aerial) application, the applicator must provide written notice of the proposed application to any person(s) likely to be directly affected by the application, including occupiers and owners of land, dwellings, buildings or property that is immediately abutting the application area. This notice must be given at least two working days but no more than four weeks in advance of each application; and specify the following:
  - i. The location of application area;

- ii. The date and approximate duration of each application;
- iii. The steps to be taken by the notified parties to avoid exposure (e.g. closing windows and doors, moving laundry indoors, staying inside, etc.);
- iv. The name of the organisation(s) undertaking the application;
- v. Contact details for the person in charge of the application (phone, email or postal address, including a contact number for immediate contact during application).

## AGRICULTURAL CROPS

CROP	PEST	RATE	CRITICAL COMMENTS
Lucerne	Aphids	300-450 mL/ha	Apply as soon as Aphids appear. Use the lower rate on short crops with little leaf, and the higher rate on tall crops. Do not spray plants in flower.
	Sitona weevil	600-800 mL/ha in 100-200 L water	To control adults, apply in mid-late May, after flights cease and before egg laying occurs. Use the high rate in dense stands and spray during a warm, calm day.
Maize	Army caterpillar, corn earworm	500 mL/ha	Apply immediately damage is first seen and repeat if necessary 14-21 days later.
	Cutworm	600 mL/ha	Use in sufficient water for complete coverage of the seedlings and surrounding soil. Spray in the evening at first sign of damage.
Pasture	Army caterpillar	<b>Ground application</b> 400 mL/ha in 100-200 L water <b>Aerial application</b> 400 mL/ha in 50-100 L water	Apply when damage is first seen (usually associated with severe flood damage).
	Lucerne flea	200 mL/ha	Apply in late autumn/early winter at first sign of clover damage.
	Porina caterpillar	1.25-1.7 L/ha in 50-200 L water	Use the low rate against small caterpillars, before frosts occur. Closely graze pasture before spraying.
	Tasmanian grass grub	1.25-1.5 L/ha in 100-200 L water	Apply to short dry pasture between April and June at first signs of pasture damage. Harrowing of dung patches is recommended prior to spraying, to expose the larvae. Use higher rates when population is large.
	Argentine stem weevil	1.25 L in 100-200 L of water/ha	Apply as soon as eggs are found on the lower leaf sheaf.
Cereals	Cereal, rose and grain aphid	300-400 mL/ha	Apply at first sign of infestation. Use the high rate when infestation pressure is high or the crop is dense.
Ryegrass/ cereals	Argentine stem weevil	1.25 L/ha	Apply as soon as eggs are present on the lower leaf sheath.

## HORTICULTURAL CROPS

CROP	PEST	RATE	CRITICAL COMMENTS
Avocado	Leafroller	50-75 mL/100 L water	Apply as a high volume spray to run off. Apply pre-flowering, at complete petal fall, then at 21 day intervals until late April, or after April if Leafroller is still present.
		<b>Aerial application</b> 1.7 L/ha	Use sufficient water for good coverage. Apply pre-flowering, at complete petal fall, then at 21 day intervals until late April, or after April if Leafroller is still present.
Brassicas and forage crops	Aphids	<b>Ground application</b> 300-400 mL/ha in 100-200 L water/ha <b>Aerial application</b> 300-400 mL/ha in	Apply as necessary.



CROP	PEST	RATE	CRITICAL COMMENTS
		50-100 litres water/ha	
	Nysius	1.25 L/ha in 100-200 L of water/ha	Apply to seedling crops as soon as damage is apparent or when nymphs can be seen feeding on seedlings
	Springtails	200 mL/ha in 50-200 L water/ha	Apply 1-2 days before crop emergence or as soon as damage is first noticed.
<b>Grapes</b> Except table grapes	Grape vine weevil, aphids, leafroller, mealy bug, scale crawlers and thrips	50-75 mL/ha in 100-200 L water	Use the higher rate for mealy bug control or when insect pressure is high. Apply at bud swell (with intermediate oil), pre-flowering, post-flowering and 14 days later, then every 21 days until harvest. Ensure complete plant coverage and penetration into bunches for optimum control of mealy bug.
<b>Kiwifruit</b>	Greedy scale, leafroller, passion vine hopper	50 mL/ 100 L water	Use as a dilute spray of not less than 1 L/ha. Make the first application at green tip (at least 10 days after the dormant lime sulphur treatment) and repeat just before blossom. Complete wetting of vine trunks, leader and canes is essential for Greedy Scale control. The addition of a non-ionic wetting agent is recommended. Do not apply after bud cracking (first visible petals).
<b>Onions</b>	Onion thrips	1 L/ha in 400-500 L water/ha. The use of a wetting agent is recommended.	Apply when monitoring shows numbers exceed recommended action threshold level. Apply 3-4 applications at 10-14 day intervals, close intervals to 5-7 days during hot conditions. If further treatments are required, use an insecticide with a different active ingredient.
<b>Pipfruit, stonefruit</b> pre-flowering	Mealy bug, scale crawlers, woolly aphid and brown beetle	80 mL/100 L water or not less than 2.4 L/ha on mature trees	Ensure complete coverage. <b>Pipfruit</b> Apply at bud movement with a suitable spraying oil. Repeat without oil 10-14 days later at tight cluster. <b>Stonefruit</b> Apply at early bud movement with a suitable spraying oil.
<b>Winter squash</b>	Aphids, caterpillars	500 mL/ha in approx. 200 L water	Apply as a single application soon after emergence, at the first signs of insects or insect damage.
		<b>Ground application</b> 500 mL/ha in 500 L water/ha <b>Aerial application</b> 500 mL/ha in at least 50 L/ha water	As a pre-harvest clean up, apply only when flowering has finished and bees are not present in the crop.

## INDUSTRIAL SITUATIONS

SITUATION	PEST	RATE	CRITICAL COMMENTS
Industrial pests	Spiders, ants and slaters	120 mL in 10 L of water or deodorised kerosene	Apply to areas around doors, windows, eaves and other resting areas. Re-treat as required.

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.**

## WITHHOLDING PERIODS

<b>Avocado, grapes, maize:</b>	<b>Do not apply later than 14 days before harvest.</b>
<b>Cereals for grain:</b>	<b>Do not apply later than 8 weeks before harvest.</b>
<b>Fodder crops, pasture:</b>	<b>Do not apply later than 7 days before harvest.</b>
<b>Kiwifruit:</b>	<b>Do not apply later than bud cracking (first visible petals).</b>
<b>Onions:</b>	<b>Do not apply later than 7 days before harvest</b>

<b>Pipfruit:</b>	<b>Do not apply after tight cluster</b>
<b>Squash:</b>	<b>Do not apply later than 10 days before harvest.</b>
<b>Stonefruit:</b>	<b>Do not apply after petal fall</b>

### **RE-ENTRY INTERVAL**

Do not enter any treated area for 24 hours after application. If prior access is required, chemical resistant coveralls gloves, footwear plus socks, headgear for overhead exposures and protective eyewear must be worn at all times.

### **MIXING**

Invert container several times before opening. Stir well. Add the full quantity of product to the partly filled spray tank while agitating. Fill tank and agitate to ensure thorough mixing and continue agitation while spraying. Agitate vigorously from the bottom if allowed to stand. Reseal part used containers immediately.

### **APPLICATION**

The rates suggested for orchard crops are for high volume spraying to run off. For concentrate spraying, adjust dilution rate accordingly.

### **COMPATIBILITY**

This product is compatible with most commonly used pesticides. It is not compatible with highly alkaline materials such as Bordeaux mixture and lime sulphur.

### **RESISTANCE MANAGEMENT**

PYRINEX INSECTICIDE contains the GROUP 1 organophosphate insecticide, chlorpyrifos. Resistance to this pesticide may develop from excessive use. Avoid using this insecticide exclusively all season and avoid unnecessary spraying. Maintain good cultural control practices. To minimize this risk use strictly in accordance with label instructions and resistance management strategies that exist for any insect pest listed on the label. Consult <https://resistance.nzpps.org/> for current resistance management strategies for listed pests.

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