

DANGER
KEEP OUT OF REACH OF CHILDREN
ORGANOPHOSPHATE CONTAINING SUBSTANCE



ADAMA

PYRINEX[®] 500EC

GROUP 1 INSECTICIDE

For control of various insect pests in certain agricultural and horticultural crops

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 500 g/L CHLORPYRIFOS in the form of an emulsifiable concentrate

UN No:	3018
Class-primary	6.1
Packing group	III
Proper shipping name:	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC
Marine pollutant:	YES

Batch number:	NET CONTENTS: 5 L to 200 L
Date of Manufacture:	
Barcode to be inserted	



REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.**DANGER**

Combustible liquid. Toxic if swallowed or in contact with skin. Harmful if inhaled. May be fatal if swallowed and enters airways. 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 with long lasting effects. Toxic to the soil environment. Very toxic to terrestrial vertebrates. Very toxic to terrestrial invertebrates.

THIS PRODUCT IS RESTRICTED TO WORKPLACES ONLY.**HANDLING PRECAUTIONS**

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe spray mist or vapours. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke while using this product. Use personal protective equipment as stated in the personal protection section of this label. Wash exposed skin thoroughly after handling. Avoid unintended release into the environment. Collect spillages.

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 ECOTOXIC 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

A PCBU with management or control of the substance must ensure that a written record is kept of each application of this substance. This record must include the product name, date and time of each application, amount of substance applied, location where the substance was applied, wind speed and direction and electronic data files indicating the application area (if applied by air), and details of measures taken to ensure no adverse effects beyond the boundary of the application area.

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

MUST BE SECURED IF LEFT UNATTENDED.

Store locked up in the original tightly closed container in a well-ventilated place. Keep cool. In case of fire use water fog or fine spray for extinction. Do not store with Class 1, 2, 3.2, 4 or 5 substances or foodstuffs. Stores containing more than 500 L of PYRINEX 500EC require two fire extinguishers. 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.

TRANSPORT

Do not carry packs greater than 1 L of this product on a passenger service vehicle.

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, loading or applying, or entering an application area within the REI, wear appropriate full protective clothing such as chemical resistant boots with socks, a chemical resistant spray suit or coat and trousers (worn outside boots), elbow-length chemical resistant gloves, eye protection, and chemical resistant headgear for overhead exposures. A NIOSH approved respirator with combination filter for vapour/particles should also be worn. Wash splashes of concentrate from skin immediately. Remove



protective clothing and wash hands, arms and face with soap and water before meals and after work. Wash protective clothing daily after use.

SPILLAGE

Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways or coming in contact with Class 1, 2, 3.2, 4 or 5 substances. 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, burn in an appropriate incinerator if circumstances such as wind direction permit, or 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 at an approved landfill or other approved facility.

Do not burn product or container.

SAFETY DATA SHEET

A safety data sheet for this product is available at www.adama.com.

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. Do NOT induce vomiting. **Immediately** call a POISON CENTRE or doctor.

IF ON SKIN: Immediately remove all contaminated clothing. Wash with plenty of soap and water. Call a POISON CENTRE or doctor if you feel unwell. 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.

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

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.



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

Registered pursuant to the ACVM Act 1997, No. P9338
See www.foodsafety.govt.nz for registration conditions.

Pyrinex 500 EC Label – July 2023



Approved pursuant to the HSNO Act 1996, Approval No. HSR000224
See www.epa.govt.nz for approval conditions

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



A handwritten signature in blue ink, appearing to be 'John Gillingham'.

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 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
 - (b) immediately after application until spray has dried; or
 - (c) in areas where bees are foraging.
- **NOTIFICATION OF APPLICATION (aerial application only)**
 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 owner of land, dwellings, buildings or property that is immediately abutting the application area. Notification must be given at least 2 working days before, but no more than 4 weeks before, each application of the product; and specify the following:
 - i. The location of the area the substance will be applied to.
 - 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).
- **RESTRICTED ENTRY INTERVAL (REI)**
 1. The REI for this substance is 24 hours.
 2. The person in charge of the application area shall ensure that no person who is authorised to be there enters the application area until the end of the REI.
 3. Despite (2), a person may enter the application area before the end of the REI—
 - (a) if PPE and RPE is worn as if that person is applying the substance; and
 - (b) if entering an indoor treated area, for the purpose of carrying out tasks associated with ventilation of the building or structure.

AGRICULTURAL CROPS

CROP	PEST	RATE/ha	CRITICAL COMMENTS
Lucerne	Aphids	300-450 mL in 100-200 L water	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 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 in 50-200 L water	Apply immediately damage is first seen and repeat if necessary 14-21 days later. For corn earworms, apply before caterpillars are observed and before cob penetration occurs.
	Cutworm	600 mL in 50-200 L water	Use in sufficient water for complete coverage of the seedlings and surrounding soil. Spray in the evening at first sign of damage.

CROP	PEST	RATE/ha	CRITICAL COMMENTS
Pasture	Army caterpillar	Ground application 400 mL in 100-200 L water Aerial application 400 mL in 50-100 L water	Apply when damage is first seen (usually associated with severe flood damage).
	Lucerne flea	200 mL in 50-200 L water	Apply in late autumn/early winter at first sign of clover damage.
	Porina caterpillar	1.25-1.7 L 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 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	Apply as soon as eggs are found on the lower leaf sheath.
Cereals	Cereal, rose and grain aphid	300-400 mL	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 in 100-200 L of water	Apply as soon as eggs are present on the lower leaf sheath.

HORTICULTURAL CROPS

CROP	PEST	RATE/ha	CRITICAL COMMENTS
Avocado	Leafroller	50-75 mL in 100 L of 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.
		Aerial application 1.7 L	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	Ground application 300-400 mL in 100-200 L water Aerial application 300-400 mL in 50-100L water	Apply as necessary at the first sign of infestation.
	Nysius	1.25 L in 100-200 L of water	Apply to seedling crops as soon as damage is apparent or when nymphs can be seen feeding on seedlings.
	Springtails	200 mL in 50-200 L of water	Apply 1-2 days before crop emergence or as soon as damage is first noticed.
Grapes (except table grapes)	Grape vine weevil, aphids, leafroller, mealy bug, scale crawlers and thrips	50-75 mL / 100 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.



Kiwifruit	Greedy scale, leafroller, passion vine hopper	50 mL in 100 L of 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).
Onions	Onion thrips	1 L in 400–500 L of water. 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 mode of action.
Pipfruit, stonefruit Pre-flowering	Leafroller, mealy bug, scale crawlers, woolly aphid and brown beetle	80 mL in 100 L of water or not less than 2.4 L/ha on mature trees	Ensure complete coverage. Do not exceed 3 L/ha. Pipfruit Apply at bud movement with a suitable spraying oil. Repeat without oil 10-14 days later at tight cluster. Stonefruit Apply at early bud movement with a suitable spraying oil. Do not apply after petal fall.
Winter squash	Aphids, caterpillars	500 mL in approximately 200 L of water	Apply as a single application soon after emergence, at the first signs of insects or insect damage.
		Ground application 500 mL in 500 L of water Aerial application 500 mL in at least 50 L of 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 PERIOD

Avocados, grape, maize:

Cereals for grain:

Fodder crops, pasture:

Kiwifruit:

Onions:

Pipfruit:

Squash:

Stonefruit:

Do not apply later than 14 days before harvest.

Do not apply later than 8 weeks before harvest.

Do not apply later than 7 days before harvest.

Do not apply later than bud cracking (first visible petals)

Do not apply later than 7 days before harvest.

Do not apply after tight cluster.

Do not apply later than 10 days before harvest.

Do not apply after petal fall.



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.

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.

APPLICATION

The rates suggested for orchard crops are for high volume spraying to run off. For concentrate spraying, adjust dilution rate accordingly. Do not apply more than 3 L PYRINEX 500EC per hectare.

RESISTANCE MANAGEMENT

PYRINEX 500EC contains the GROUP 1 organophosphate insecticide, chlorpyrifos. Resistance to this pesticide may develop from excessive use. To minimise this risk use strictly in accordance with label instructions. Do not use another product containing an insecticide in the same group in conjunction with PYRINEX 500EC, and avoid using this insecticide exclusively all season and unnecessary spraying. Maintain good cultural practices. Adopt or continue to use integrated pest management which incorporates pesticide resistance prevention/management strategies for specific crops, e.g. onion thrips and vegetable brassicas.

