

**WARNING – Combustible liquid**  
**TOXIC - Keep out of reach of children**  
**ECOTOXIC**  
**ORGANOPHOSPHATE INSECTICIDE**

**Nufarm**

**Chlorpyrifos**

**500EC**

**FREE RECYCLING**



**AGRECOVERY**

[www.agrecovery.co.nz](http://www.agrecovery.co.nz)

Active Ingredient: 500g/litre chlorpyrifos in the form of an emulsifiable concentrate

**Agricultural and horticultural insecticide**



**Net: 20 Litre**

L52791114



**Nufarm**

**Grow a better tomorrow.**

# Chlorpyrifos 500EC

**HAZARD CLASSIFICATION:** 3.1D, 6.1C, 6.3B, 6.4A, 6.8B, 6.9A, 9.1A, 9.2B, 9.3A, 9.4A

**APPROVED HANDLER:** This product must only be applied by an approved handler or under the direct supervision of an approved handler.

## TRACKING:

Location and movement of this product must be recorded at each stage of its life cycle.

This product must not be used for any purpose, or in any manner, contrary to this label unless authorized under appropriate legislation.

## FLAMMABLE

- Warning – combustible liquid. Keep away from sources of ignition.

## TOXICITY

- Toxic – may be fatal if swallowed, inhaled or absorbed through the skin. May cause eye irritation or mild skin irritation.
- Toxic – may cause damage to the nervous system from repeated oral exposure at high doses.
- Harmful – may cause reproductive/developmental damage from repeated oral exposure.

## ECOTOXIC

- Very toxic to fish and aquatic organisms. Avoid contamination of any water supply with chemical or empty container.
- Toxic to the soil environment.
- Very toxic to terrestrial vertebrates and terrestrial invertebrates (insecticide).
- Very toxic to bees. Do not apply this product to any plant or tree likely to be visited by bees either: at the time of application; immediately after application until spray has dried; or in areas where bees are foraging.

## HANDLING PRECAUTIONS

### STORAGE

- Do not store near heat or flame. Store in original container, tightly closed, in a locked, dry, cool area, away from sources of ignition and foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Do not store with Class 1, 2, 3.2, 4 or 5 substances.
- Stores containing 100 litres of Chlorpyrifos 500EC require signage and secondary containment, and more than 100 litres require emergency response plans.
- Stores containing more than 500 litres of Chlorpyrifos 500EC require 2 fire extinguishers.

## PERSONAL PROTECTION

- Avoid contact with skin and eyes or inhalation of spray mist. When mixing or applying wear full protective clothing such as chemical resistant boots with socks, a PVC spray suit or coat and trousers (worn outside boots), elbow length gloves, eye protection, waterproof headgear and a NIOSH approved respirator with combination filter for vapour/particles. Wash splashes of concentrate from skin immediately. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

## EQUIPMENT

- Apply using accurately calibrated and well maintained equipment. Clean equipment thoroughly after use.

## DISPOSAL

- Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.
- Dispose of product only by using according to the label, or at an approved landfill.

**First Aid:** If swallowed do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water. If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

**Spillage:** Wear appropriate protective clothing. Extinguish all ignition sources, exclude all bystanders from the vicinity of the spill, and prevent material from entering waterways or coming into contact with Class 1, 2, 3.2, 4 or 5 substances. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

**Transport:** Do not carry this product on a passenger service vehicle.

**Record Keeping:** Records of use as described in NZS 8409 Management of Agrichemicals, must be kept whenever Chlorpyrifos 500EC is used.

## NOTIFICATION:

A person applying Chlorpyrifos 500EC by air must give written notice to anyone likely to be directly affected (i.e. occupiers of land, property, buildings or houses immediately next to the application area). Notification must be given at least 2 working days and no more than four weeks before each application. Written notice must include: location of application area, date and approximate duration of each application, steps to be taken to avoid exposure, name or organisation applying the product and contact details for the person in charge of the application including phone number for immediate contact during application.

**Drift:** The person applying Chlorpyrifos 500EC must not cause adverse effects beyond the boundary of the treated property and must also avoid adverse effects from occurring. Mitigation measures employed must be recorded as part of the application records

**Mixing:** Pour the correct amount of Chlorpyrifos 500EC into the partly filled spray tank. Agitate and add the remainder of the water.

**Compatibility:** Chlorpyrifos 500EC is compatible with most commonly used pesticides. It is not compatible with highly alkaline materials such as Bordeaux mixture and lime sulphur.

**Resistance Management:** Chlorpyrifos 500EC contains a **GROUP I INSECTICIDE** belonging to the organophosphate class of chemistry. Resistance to this product may develop from excessive use. To minimise this risk use strictly in accordance with label instructions and resistance management strategies ([www.resistance.nzpps.org](http://www.resistance.nzpps.org)) that exist for any insect pest listed on the label.

Avoid using this insecticide exclusively all season and avoid unnecessary spraying. Maintain good cultural control practices.

## DIRECTIONS FOR USE:

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

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

**Avocado:** Leafroller. Use 50-75ml/100 litres of water as a high volume spray to run off. For aerial application, use 1.7 litres/ha in 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.

**Kiwifruit:** Greedy scale. Use 50ml/ 100 litres of water as a dilute spray or not less than 1 litre per hectare. 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.

**Grapes (except table grapes):** Leafroller, mealy bug, aphids, scale crawlers. Use 50-75ml/ 100 litres of 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.

**Pipfruit and Stonefruit:** Pre-flowering: Mealy bug, scale crawlers, woolly aphid. Use 80ml/ 100 litres of water. Ensure complete coverage. For pipfruit apply at bud movement with a suitable spraying oil. Repeat without oil 10-14 days later at tight cluster. For stonefruit apply at early bud movement with a suitable spraying oil.

**Winter Squash:** Caterpillars, aphids. Apply 500 ml/ha in approximately 200 litres of water as a single application soon after emergence, at the first signs of insects or insect damage. As a pre-harvest cleanup, apply 500ml/ha in at least 50 litres/ha (aerial) or 500 litres/ha water (ground), only when flowering has finished and bees are not present in the crop.

**Brassicas:** Aphids. Apply 300-400ml/ha using 100-200 litres of water per hectare for ground application, or 50-100 litres of water per hectare for aerial application. Nysius: Apply 1.25 litres/ha to seedling brassica crops as soon as damage is apparent. Springtails: Use 200ml/ha in 50-200 litres of water/ha. Apply 1-2 days before crop emergence or as soon as damage is first noticed.

PROPER SHIPPING NAME	HAZARD CLASS	UN No.	HAZCHEM	PACKING GROUP
ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC	6.1	3018	2X	III

**Ryegrass/Cereals:** Argentine stem weevil: Apply 1.25 litres/ha as soon as eggs are present on the lower leaf sheath.

**Pasture:** Lucerne flea: Use 200ml/ha. Apply in late autumn/early winter at first sign of clover damage. Army caterpillar: Apply 400ml/ha when damage is first seen (usually associated with severe flood damage). Use 100-200 litres of water per hectare for ground application or 50-100 litres of water per hectare for aerial application. Porina caterpillar: Apply 1.25 – 1.7 litres in 50-200 litres of water per hectare. Use the low rate against small caterpillars, before frosts occur. Closely graze pasture before spraying. Tasmanian Grass Grub: Use 1.25 – 1.5 litres/ha in 100-200 litres of water/ha. 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.

**Maize:** Army caterpillar, corn earworm: Use 500ml/ha. Apply immediately damage is first seen and repeat if necessary 14-21 days later. Cutworm: Use 600ml/ha in sufficient water for complete coverage of the seedlings and surrounding soil. Spray in the evening at first signs of damage.

**Lucerne:** Aphids: Use 300-450ml/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: Apply 600-800ml/ha in 100-200 litres of water/ha to control adults 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.

**Note:** The maximum application rate for Chlorpyrifos 500EC is 3L/ha

## WITHHOLDING PERIOD:

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards.**

Pasture, fodder crops – 7 days. Grapes, maize, avocados – 14 days. Cereals for harvest – 8 weeks. Kiwifruit – Do not apply after bud cracking (first visible petals). Squash – 10 days.

**Restricted Entry Interval (REI):** 24 hours

The person in charge is responsible for making sure no person enters the application area before the end of the REI.

Registered pursuant to the ACVM Act 1997, No. P7842

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

Approved pursuant to the HSN0 Act 1996, Approval Code HSR000224.

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

## CONDITIONS OF SALE:

### CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER

If you open this container you will be deemed to have accepted the conditions below.

The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded.

When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agents.

Marketed by: Nufarm Limited, 6 Manu St, Otahuhu, Auckland, NZ

Telephone 0-9-270 4157

Nufarm Emergency

Phonelinek: 0800 651 911 toll free 24 hours

Batch No.:

D.O.M: