

DANGER
TOXIC, ECOTOXIC, COMBUSTIBLE LIQUID
Keep out of reach of children

Outperform 500

INSECTICIDE

Insecticide Organophosphate containing substance

ACTIVE INGREDIENT:

500 g/litre Chlorpyrifos in the form of an emulsifiable concentrate.

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

Registered pursuant to the ACVM Act 1997, No. P10220

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval Code HSR000224

See www.epa.govt.nz for approval conditions.

IN A TRANSPORT EMERGENCY: CALL 111, POLICE OR FIRE BRIGADE

AgSta 



**READ LABEL CAREFULLY BEFORE OPENING AND USING
DIRECTIONS FOR USE**

It is an offence to use this product on animals.

DO NOT APPLY MORE THAN 3 L PRODUCT PER HECTARE.

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.
Pasture (grass/ clover)	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-	Apply in late autumn/early winter at first sign of clover

		200 L water	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 in 100–200 L of water	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.
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 /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.
Brassics and forage crops	Aphids	Ground application 300–400 mL in 100–200 L water	Apply as necessary at the first sign of infestation.
		Aerial application 300–400 mL in 50–100L water	
	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 in 100–200 L 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. 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	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. 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.
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INDUSTRIAL SITUATIONS

SITUATION	PEST	RATE/ha	CRITICAL COMMENTS
Industrial pests	Spiders, ants and slaters	120 mL in 10 L of water or deodorized 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.

Leaf plucking in vineyards: Sheep must not be sent for slaughter or milked for 6 months after being

removed from the vineyard (and placed on clean feed).

MIXING

Invert or roll container several times before opening or stir well before using to ensure concentrate is evenly mixed. 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 **Outperform 500** per hectare.

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 organization(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)

DO NOT allow entry into treated areas within 24 hours of application unless wearing personal protective

equipment as prescribed in the personal protection section of this label.

BEE SAFETY

Outperform 500 is 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; or immediately after application until spray has dried; or in areas where bees are foraging.

RESISTANCE MANAGEMENT

GROUP	1	INSECTICIDE
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Outperform 500 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 **Outperform 500**, 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. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the pests listed on the label.

CONDITIONS OF SUPPLY

READ THESE CONDITIONS OF SUPPLY BEFORE BUYING AND USING.

IF THESE CONDITIONS ARE UNACCEPTABLE, RETURN AT ONCE UNOPENED.

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer or registrants control. The manufacturer and registrant decline all liability for damage resulting from improper storage or use of the product.



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