



AGRISOURCE
PRODUCTS FOR AGRICULTURE

WARNING
COMBUSTIBLE LIQUID
TOXIC
KEEP OUT OF THE
REACH OF CHILDREN
ECOTOXIC

CHLORFOS 480

**An organophosphorous insecticide for the control of insect
pests in agricultural and horticultural crops**

Contains 480g/litre Chlorpyrifos in the form of an emulsifiable concentrate

GROUP

1

INSECTICIDE



NET CONTENTS
10 Litres

GENERAL INFORMATION

Chlorfos 480 is an organophosphate insecticide that works directly on insect pests through contact and vapour action. It also works as a stomach poison when ingested by insects. **Chlorfos 480** also remains active in soil for several days.

RESISTANCE PREVENTION OR MANAGEMENT

Chlorfos 480 contains the GROUP 1B INSECTICIDE chlorpyrifos. Do not use another product containing an insecticide in the same group in conjunction with **Chlorfos 480**. To minimize this resistance risk use strictly in accordance with label instructions, avoid unnecessary spraying, maintain good cultural practices. Alternate with an insecticide with a different mode of action.

It is an offence to use this product on animals

MIXING

Partly fill the spray tank and start agitation. Add the required amount of **Chlorfos 480** complete filling the spray tank and maintain agitation until spraying is complete.

COMPATIBILITY

Chlorfos 480 is compatible with most commonly used insecticides and fungicides. It should not be mixed with highly alkaline materials such as Bordeaux mixture or lime sulphur.

MAXIMUM APPLICATION RATE

This product may be applied at a maximum rate of 3 Litres/ha (1500 grams a.i.).

APPLICATION RATES

RAINFALL

The effectiveness of **Chlorfos 480** may be reduced if rainfall occurs within 3 hours of application

RECOMMENDATIONS

Unless otherwise indicated, rates suggested are for high volume spraying to the point of runoff. For concentrate spraying, adjust dilution rates accordingly. For broadcast application, use 100-200 litres of water/ ha through ground spray equipment and 50-100 litres / ha in aerial applications

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

WITHHOLDING PERIODS

Avocado & grapes.....	14 days
Cereals for grain	8 weeks
Kiwifruit	Do not apply after bud cracking (first visible petals)
Onions	7 days
Pasture & Fodder crops	7 days
Pipfruit	Do not apply after tight cluster
Stonefruit	Do not apply after petal fall
Squash	10 days

Registered pursuant to the ACVM Act 1997 No. P5913
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to HSN0 Act 1996 No. HSR000224
See www.epa.govt.nz for approval conditions

CROP	PEST	RATE	REMARKS
Avocado	Leaf roller caterpillar	50-75 ml / 100 litres of water or 1.7 litres/ha	Apply pre-bloom, at complete petal fall and then repeat at 21 day intervals to the end of April. Continue applications if leaf roller are still present. Use the 1.7 litre/ha rate for aerial applications.
Brassicas and forage crops	Aphids	300-400 ml in 100-200 litres of water/ha	Apply at the first sign of infestation.
	Nysius (wheat bug)	1.25 litres/ha in 100-200 litres of water/ha	Apply to seedling brassica as soon as damage is evident or when nymphs can be seen feeding on seedlings.
Cereals	Springtails	200 ml in 100-200 litres of water/ha	Apply 1-2 days before crop emergence or as soon as damage is evident in emerged crop.
	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.
Cereals and Ryegrass	Argentine stem weevil	1.25 litres/ha in 100-200 litres of water/ha	Apply as soon as eggs are found on the lower leaf sheaf.
Grapes (except table grapes)	Grape vine weevil, Leafroller caterpillar, Mealy bug, Aphids, Scale crawlers and Thrips	50-75 ml / 100 litres of water or 1.0 litres/ha	Apply at bud swell in combination with an intermediate oil. Follow up with treatments at pre-flowering, post-flowering, 14 days later and then at 3 week intervals for the remainder of the season. Ensure complete plant coverage and penetration into bunches for optimum control of mealy bug.
Kiwifruit	Greedy scale, Leafroller, Passion vine hopper	50 ml / 100 litres of water. Apply not less than 1.0 litres/ha	Apply at green tip at least 10 days after dormant lime sulphur application. Repeat at pre-blossom, 7 days prior to the introduction of bees. For greedy scale control, complete wetting of vine trunks, leaders and canes is required. The addition of a non-ionic wetting agent is recommended. Do not apply after bud cracking (first visible petals).
Lucerne	Aphids	300-450 ml in 100-200 litres of water/ha	Apply at first sign of infestation. Use the lower rate on short crops with little foliage and the higher rate on tall leafy crops close to cutting. Do not spray plants in flower.
	Sitona weevil	600-800 ml in 100-200 litres of water/ha	Apply between May and early August with the optimum time being during the last weeks of May. Use the higher rates on dense leafy crops.
Maize	Army caterpillar, Corn ear worm	500 ml in 50-200 litres of water/ha	Apply at the first sign of damage and repeat if required 14-21 days later. For corn ear worm, apply before caterpillars are observed and before cob penetration occurs. Ensure complete coverage of seedlings and surrounding soil.
	Cut worm	600 ml in 50-200 litres of water/ha	Apply early post-emergence or as soon as damage occurs. Application in the late evening is advantageous against this Nocturnal pest.
Onions	Onion Thrips	1 litre in 400-500 litres of 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.
Pasture	Lucerne flea	200 ml in 50-200 litres of water/ha	Apply in the late autumn/ early winter at the first sign of clover damage.
	Army caterpillar	400 ml in 50-200 litres of water/ha	Apply at the first sign of damage.
	Porina caterpillar	1.25-1.7 litres in 50-200 litres of water/ha	Apply to closely grazed pasture at the first sign of infestation. Use the lower rate in the pre-frost period when caterpillars are small.
	Tasmanian grass grub	1.25-1.5 litres in 100-200 litres of water/ha	Apply between April and June to short dry pasture at the first sign of pasture damage. Harrowing of dung patches is recommended prior to spraying to expose the larvae. Use the higher rate when populations are high.
	Argentine stem weevil	1.25 litres in 100-200 litres of water/ha	Apply as soon as eggs are found on the lower leaf sheaf.
Pipfruit and Stonefruit	Leafroller, Mealy bug, Scale crawlers, Woolly aphid and Brown beetle	80 ml / 100 litres or not less than 2.4 litres/ha on mature trees	On pipfruit, apply at bud movement in mixture with a suitable spraying oil and repeat at 10-14 days later at tight cluster without oil. On stonefruit; Apply at early bud movement with a suitable spraying oil. Do not apply after petal fall.
Squash	Caterpillars and Aphids	500 ml/ha in approximately 200 litres of water/ha	Apply soon after emergence, at the first sign of insect presence or their damage. Pre-harvest clean up- apply by air at 500ml/ha in 50 litres of water (500 litres ground spray) only after flowering is complete and bees have stopped working.
Industrial pests	Spiders, Ants and Slaters	120 ml in 10 litres of water or deodorised kerosene	Apply to areas around doors, windows, eaves and other resting areas. Retreat as required.

READ LABEL COMPLETELY BEFORE USE

HSNO CLASSIFICATIONS: 3.1D, 6.1C, 6.1D, 6.1E, 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 lifecycle.

COMBUSTIBLE LIQUID

Keep away from sources of ignition.



TOXIC

May be fatal if swallowed, inhaled or absorbed through the skin. May cause skin and eye irritation. May cause target organ damage from repeated oral exposure at high doses.



ECOTOXIC

Very Toxic to aquatic organisms with long lasting effects. Not to be applied onto or into water. Avoid contamination of any water supply with product or empty container. **Toxic** to the soil environment. **Very Toxic** to terrestrial vertebrates. **Very Toxic** to terrestrial invertebrates.

BEEES

This product is **Very Toxic** to bees, do not apply to any plant/tree likely to be visited by bees at the time of application, immediately after application until spray has dried, or in areas where bees are foraging.

HANDLING PRECAUTIONS

PPE: When mixing, loading or applying this product, wear Full Personal Protective Equipment (PPE). Chemical resistant coveralls, chemical resistant gloves, chemical resistant footwear plus socks, chemical resistant headgear for overhead exposures and chemical resistant eyewear. 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 after work.

REI: Restricted entry interval. The REI for this product is 24 hours. 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. Entry to the application area before the end of the REI requires full PPE to be worn.

Notification: (For aerial applications only) No person may apply, or engage another person to apply, this product unless that person has given written notice at least two working days before, but no more than four weeks before the proposed application to any person likely to be directly affected by the application, including occupiers and owners of land, dwellings or buildings or property that is immediately abutting the application area. Written notice must include where the product will be applied, date and approximate duration of application, the steps that notified parties should take to avoid exposure, the name of the organisation applying the product with full contact details for the person in charge of the application, and a contact number for immediate contact during the application.

Spray Drift Mitigation: 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.

Storage: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Storage should be in accordance with NZS8409 Management of Agrichemicals. This product is classified under HSNO controls 9.1A, as such storage of certain quantities of this class may require bunding and signage. See the Safety Data Sheet for more information for further information. Keep out of reach of children. Store in accordance with NZ 8409 Management of Agrichemicals.

Spillage: Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

Product Disposal: Ensure unwanted product is used by another operator strictly in accordance with label directions.

Container Disposal: Container Disposal: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

Safety Data Sheet: Additional information is provided in the SDS available from your supplier.

FIRST AID

If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 Poison (0800764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If concentrate is splashed in the eyes, flush with running water immediately.

EMERGENCY RESPONSE

In a transport emergency call 111, Police or Fire Brigade.

CONDITIONS OF SUPPLY

All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agri Solutions Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection

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BATCH NO:

DATE OF

MANUFACTURE:

24 HOUR EMERGENCY RESPONSE 0800 CHEMCALL (0800 243 622)