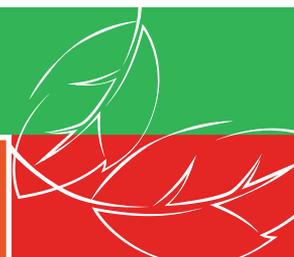


**orion** AGRISCIENCE



**DANGER**

KEEP OUT OF REACH OF CHILDREN



# Chlor-P

## 480EC

# INSECTICIDE

A broad spectrum insecticide for use in a wide range of ARABLE and FRUIT crops

**Active Ingredient:**

480g/litre chlorpyrifos in the form of an emulsifiable concentrate



**20 Litres**



140 x 140mm (WxH)

**PLEASE READ THE LABEL COMPLETELY BEFORE USE****HAZARD CLASSIFICATIONS:**

**Flammable liquid Category 4, Acute oral toxicity Category 3, Acute Dermal toxicity Category 3, Acute Inhalation toxicity Category 4, Aspiration Hazard Category 1, Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 1, Reproductive toxicity Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1**

**DANGER: FLAMMABLE, TOXIC, ECOTOXIC**

Combustible liquid. Toxic if swallowed or in contact with skin. Harmful if inhaled. Maybe 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 and invertebrates.

**PRECAUTIONS****HANDLING REQUIREMENTS:**

This product must only be handled, mixed and applied by a suitably qualified person as defined under the HPC notice 2017 Part 4C. Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 L or more is applied within 24 hours and likely to leave the application area.

**WORKPLACE ONLY:**

This product must only be used in the workplace as defined under the HPC notice 2017 Part 2.

**STORAGE:**

Keep out of reach of children. Do not store near heat, flame or other source of ignition. Store in the original, tightly closed container, in a secure area away from foodstuffs. Storage of certain quantities of this product trigger specific storage requirements (Refer to Safety Note). 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 product that is older than this.

**PERSONAL PROTECTION:**

Avoid contact with eyes and skin. Avoid inhalation of vapour or spray mist. Avoid handling, mixing or use of the undiluted product or container near heat, flame or other source of ignition. When mixing, loading, applying, or entering the treated area within REI, wear chemical resistant coveralls, boots and gloves, head covering for overhead exposure, and eye protection. A respirator (organic vapour and particulate matter) is required where spray mist or vapour could be inhaled. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

**DISPOSAL:**

Dispose of this product only by using in accordance with this label, or at a suitable landfill. Triple rinse container and add rinsate to the spray tank. Dispose of container to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use container for any other purpose.

**ENVIRONMENTAL:**

Use this product carefully. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. Do not contaminate aquatic environments with product, spray drift or empty container. Do not allow spray drift outside the target area to occur. Very toxic to bees – Do not apply this substance to plants if bees are foraging, or the plants are in flower or part flower, and are likely to be visited by non-target invertebrate pollinators (including bees). Collect spillage. Mitigation measures employed must be recorded as part of the application records. For aerial application, use of this product is subject to notification requirements to neighbours and others who may be affected.

**SYMPTOMS OF POISONING**

These may include excessive sweating, headache, weakness, faintness, dizziness, nausea, stomach pains, vomiting, small pupils, blurred vision and muscle twitching.

**FIRST AID**

If medical advice is needed, have the product container or label at hand. If swallowed do not induce vomiting. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Call the National Poisons Centre **0800 POISON (0800 764 766)** (24 hrs) or a doctor immediately for advice.

**EMERGENCY RESPONSE**

In a transport emergency call **111, Police or Fire Brigade**. In a fire, evacuate and call **111 Fire Brigade**. For specialist advice in an emergency only, call **0800 CHEMCALL (0800 243 6225)** (24 hrs).

**SPILLAGE**

Extinguish any ignition sources. Exclude non-essential people from the area. Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material such as soil, sand, etc, and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of safely to a suitable landfill.

**SAFETY DATA SHEET**

Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz)

**WARRANTY**

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's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Registered pursuant to the ACVM Act 1997, No. P4852

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

Approved pursuant to the HSNO Act 1996, No. HSR000224

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

<sup>TM</sup>CHLOR-P and SYNERGY are Trade Marks of Orion Agriscience Limited.

**Registrant:** Agsin Pte Ltd, Zagro Global Hub, 5 Woodlands Terrace, Singapore 738430

**Distributor:** Orion Agriscience Ltd, Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch 8053.

**0800 674 6627** [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz)

**UN 3018  
ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (CHLORPYRIFOS 48%)  
PACKING GROUP III  
HAZCHEM CODE 2X  
IN A TRANSPORT EMERGENCY, DIAL 111 POLICE OR FIRE BRIGADE.  
FOR SPECIALIST ADVICE IN AN EMERGENCY CALL 0800 CHEMCALL  
(0800 243 622)**

**CHLOR-P 480EC**

Batch No.

Date of Manufacture

**orion** 0425  
AGRISCIENCE

## PLEASE READ THE LABEL COMPLETELY BEFORE USE

### GENERAL INFORMATION

Chlor-P 480EC is a broad spectrum insecticide for use in a wide range of arable and fruit crops.

### MIXING

Partly fill the spray tank with water. Add the measured quantity of Chlor-P 480EC. Agitate while adding the balance of water. Use a surfactant where directed for each crop in the situations for use table. Follow the label rate of the surfactant used. Where water with a high pH or water containing calcium salts cannot be avoided, the addition of a product such as Synergy™ pH Buffer is recommended to reduce chemical deactivation and hydrolysis.

### COMPATIBILITY

Chlor-P 480EC is compatible in tank mixes with most commonly used pesticides. Chlor-P 480EC is **NOT** compatible with products such as a Bordeaux mixture or lime sulphur, or with other products that have a high alkalinity.

### RAINFALL

Do not spray if rain is expected within 3 hours of spraying.

### WITHHOLDING PERIODS

**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**

Avocados, Grapes and Maize Brassicas and Fodder Crops, (including Fodder Beet), Pasture, Ryegrass	14 days
Cereals (Grain Harvest)	7 days
Kiwifruit	8 weeks
Lucerne	Do <b>NOT</b> apply after bud cracking (first visible petals)
Onions	7 days
Pipfruit and Stonefruit	7 days
Squash	Do <b>NOT</b> use after the start of flowering
Export Crops	10 days
	Contact your exporter or industry crop adviser.

### RESTRICTED ENTRY INTERVAL (REI)

The person in charge is responsible for making sure that no person enters an application area until the end of the REI unless they are wearing the appropriate personal protective equipment. For indoor applications signs must be put outside the application area, at every routine point of entry from the start of application to the end of the REI

Pipfruit and Stonefruit 24 hours

### RESISTANCE MANAGEMENT

GROUP	<b>1</b>	INSECTICIDE
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Chlor-P 480EC contains the organophosphorus compound chlorpyrifos. Resistance to this insecticide could develop from excessive use. To minimise this risk, use strictly in accordance with label instructions. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the insect pests listed on the label.

**DIRECTIONS FOR USE**

Apply with well-maintained and calibrated spray equipment.

**NOTIFICATION**

For aerial applications, written notice must be given to any person likely to be directly affected by the application. This includes occupiers and owners of land, dwellings or buildings or property that is immediately abutting the application area. This notification must be given between 2 working days and 4 weeks in advance of each application. It must specify the location of application area, the date and approximate duration of each application, the steps to be taken by the notified parties to avoid exposure, the name of the organisation/s undertaking the application, contact details for the person in charge of the application (phone, email or postal address), and a contact number for immediate contact during application.

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

**a) BROAD ACRE CROPS**

Crop	Insects Controlled	Rates of Use / ha	Critical Comments
Brassicas and Fodder Crops	Aphids	300 – 400 mL in 100 - 200 L/ha water Aerial water rate: 50 - 100 L/ha	Apply as necessary.
	Nysius Wheat Bug	1.25 L in 100 - 200 L/ha 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/ha water	Apply 1 – 2 days before crop emergence or as soon as damage is first noticed.
Cereals	Aphids (Cereal, Rose and Grain)	300 – 400 mL	Apply at the first sign of infestation. Use the high rate when insect pressure is high or where the crop is dense.
	Argentine Stem Weevil	1.25 L	Apply as soon as eggs are present on the lower leaf sheath.
Fodder Beet	Nysius Wheat Bug	1.25 L	Apply to seedling crops as soon as damage is apparent or when nymphs can be seen feeding on seedlings.
Lucerne	Aphids	300 – 450 mL	Apply as soon as aphids appear. Use the lower rate on short crops with little leaf, and the higher rate on tall leafy crops. Do <b>NOT</b> spray plants in flower.
	Sitona Weevil	600 – 800 mL in 100 – 200 L/ha water	To control adults, apply in mid – late May, after flights cease and before egg laying occurs. Use the high rate in dense stands.

CHLOR-P 480EC

Crop	Insects Controlled	Rates of Use / ha	Critical Comments
Maize	Army Caterpillar, Corn Earworm	500 mL	Apply immediately damage is first seen and repeat if necessary 14 – 21 days later.
	Cutworm	600 mL	Use in sufficient water for complete coverage of the seedlings and surrounding soil. Spray in the evening at the first sign of damage.
Onions	Onion Thrips	1 L in 400 – 500 L/ha 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.
Pasture	Argentine Stem Weevil	1.25 in 100 - 200 L/ha water	Apply as soon as eggs are present on the lower leaf sheath.
	Army Caterpillar	400 mL in 100 - 200 L/ha water Aerial water rate: 50 - 100 L/ha	Apply at the first sign of damage, usually where excess surface water or flooding has occurred.
	Lucerne Flea (Clover Flea)	200 mL	Apply late autumn / early winter at the first sign of clover damage.
	Porina Caterpillar	1.25 – 1.7 L in 100 - 200 L/ha water Aerial water rate: 50 - 100 L/ha	Before application, pastures should be closely grazed. Use the lower rate before frosts start occurring.
	Tasmanian Grass Grub	1.25 – 1.5 L in 100 – 200 L/ha water	Apply to short dry pasture between April – June at the first sign of pasture damage. Harrow dung patches prior to spraying to expose the grubs. Use the higher rate when grub numbers are high.
	Ryegrass	Argentine Stem Weevil	1.25 L
Winter Squash	Aphids, Caterpillars	500 mL in 200 L/ha water	Apply as a single application soon after emergence, at the first signs of insects or insect damage.
		500 mL in 500 L/ha water Aerial water rate: 50 L/ha min	As a pre-harvest clean up, apply only when flowering has finished.

**b) HORTICULTURAL CROPS**

Crop	Insects Controlled	Rate per 100 Litres of Water	Critical Comments
Avocados	Leafroller	50 – 75mls	Apply pre-flowering, at petal fall, and then at 21 day intervals until late April. Continue applications if leafroller is still present.
Grapes (Except Table Grapes)	Aphids, Leafroller, Mealy Bug, Scale Crawler and Thrips	50 - 75mls	Do not apply less than 1.0 litre/ha at full foliage. Good penetration of bunches is required for Mealy Bug control and where populations are large, use the higher rate. Apply at: (1st) Bud swell (2nd) Pre Flower (3rd) Post Flower (4th) 14 days later and thereafter every 3 weeks until the season is complete.
Kiwifruit	Greedy Scale and Leafroller	50mls	Do not apply less than 1.0 litre/ha. Use a non-ionic wetting agent. For total control 2 applications are required. Apply at: (1st) At green tip. 10 days must have passed from the last application of a dormant lime sulphur. (2nd) Just prior to blossom. For Greedy Scale, the canes, leaders and vine trunks must be totally covered. Do <b>NOT</b> apply when flowering.
Pipfruit and Stonefruit.	Brown Beetle, Mealy Bug, Scale Crawler and Woolly Aphid.	80mls	Do not apply less than 3.0 litres/ha on mature trees. For Stonefruit, apply at early bud movement with a recommended spraying oil. For Pipfruit, apply at bud movement with a recommended spraying oil, and repeat 10 - 12 days later.

**NOTE** : Do **NOT** exceed 3.1 L/ha for any application.