



**DANGER**  
**COMBUSTIBLE LIQUID/TOXIC/ECOTOXIC**

Keep out of reach of children  
Read label before use

**HORTCARE®**

# CHLORPYRIFOS 50 EC

A broad spectrum insecticide for use in a  
wide range of arable and fruit crops

ACTIVE INGREDIENT: contains 500g/litre chlorpyrifos  
in the form of an emulsifiable concentrate.  
Also contains 504g/litre aromatic naphtha solvent

GSCHL024/F03



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HORTCARE®  
CHLORPYRIFOS 50 EC  
NET CONTENTS: 20 Litres

**Grosafe®**

# HORTCARE® CHLORPYRIFOS

## HSNO HAZARD CLASSIFICATION:

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, Reproductive toxicity Category 2, Specific target organ toxicity (repeated exposure) Category 1, 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.



### TOXICITY

**DANGER: May be fatal if aspirated into lungs.** Toxic by ingestion or by skin contact. Harmful if inhaled. Long term repeated exposure can inhibit cholinesterase.

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

### FLAMMABILITY

Combustible liquid. Keep away from heat, sparks, open flames and hot surfaces. No smoking.

### ECOTOXICITY

Very toxic to aquatic life and with long-lasting effects. Hazardous to soil organisms, terrestrial vertebrates and terrestrial invertebrates.

Do not mix or load near waterways. Must not be applied into or onto water. 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 substance to plants if (1) bees are foraging, or (2) plants are in flower or part flower and are likely to be visited by non target invertebrate pollinators (including bees).

**PERSONAL PROTECTION:** Obtain safety instructions before use. Do not handle until all safety precautions have been read and understood. Use restricted to workplaces only. Use only outdoors or in well-ventilated area. When mixing or loading wear overalls and impervious gloves, boots and face protection. Do not inhale vapour or spray mist. Wash hands and exposed skin after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing and personal protective equipment before re-use.

**QUALIFIED HANDLER:** This product must be under the control of a suitably qualified trained handler when being mixed, loaded or applied.

**APPLICATION:** For wide dispersive application, written notification requirements apply. The maximum application rate is 3 L Hortcare® Chlorpyrifos 50 EC/ha (1500 g chlorpyrifos/ha). A Restricted Entry Interval (REI) of 24 hours applies.

**RECORDS:** A record of use must be kept as described in the Management of Agrichemicals NZS: 8409 if using more than 3 kg within 24 hours in a place where the product is likely to enter air or water and leave the application area.

**STORAGE:** Combustible liquid. In case of fire: Use fine water spray or foam. Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs and sources of ignition. Storage to be in accordance with the current version of the Management of Agrichemicals NZS 8409.

**SPILLS AND DISPOSAL:** Isolate or eliminate sources of ignition. Collect spillage. When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain and absorb with suitable inert absorbent material and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled, absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, immediately contact the local water authority.

**Product Disposal:** If possible dispose of by using according to the label, otherwise dispose of to a hazardous waste facility or in an approved landfill.

**Container Disposal:** Triple rinse container and use rinsate in preparation of spray mixture. Puncture, crush and bury rinsed container in an approved land fill or take to an agrocovery recycler.

**SAFETY DATA SHEET:** A safety data sheet is available from Grosafe Chemicals Ltd.

**FIRST AID:** If exposed or concerned: Get medical advice.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Rinse mouth.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call the National Poisons Centre (0800 764 766) or a doctor for advice.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Centre or doctor for advice.

**EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622)**

### DIRECTIONS FOR USE

Partly fill the spray tank with water. Add the measured quantity of Hortcare® Chlorpyrifos 50 EC.

Agitate while adding the balance of the water.  
It is an offence to use this product on animals

### COMPATIBILITY

Hortcare® Chlorpyrifos 50 EC is compatible in tank mixes with commonly used pesticides. It is not compatible with Bordeaux mixture, lime sulphur or other highly alkaline materials. If the available water supply is alkaline or high in calcium salts the addition of a pH buffer is recommended.

### RAINFALL

Do not spray if rain is expected within three hours.

### WITHHOLDING PERIODS:

Lucerne:	7 days
Pasture and fodder crops:	7 days
Grapes, maize:	14 days
Cereals (grain harvest):	56 days
Pip and stonefruit:	Do not apply after the start of flowering
Kiwifruit:	Do not apply after bud cracking (first visible petals)
Avocado:	14 days

**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.**

## RATES OF APPLICATION - Broad Area

CROP	PEST	RATE/ha	COMMENTS
Fodder crops	Aphids	280-400ml in 100-200 litres water	Aerial water rate: 50-100 L/ha. Apply at first sign of damage to crops.
	Nysius wheat bug	1.2 litres in 100-200 litres water	Apply when eggs are evident on the lower sheath of the stem.
Cereals, Ryegrass	Argentine stem weevil	280-440ml in 50-200 litres water	Spray as soon as aphids are apparent. Use the higher rate on dense leafy crops and the low rate on short crops with little leaf. Do not spray crops in flower.
Maize	Army caterpillar, Corn earworm	280-440ml in 50-200 litres water	Army caterpillar: apply as soon as damage is visible. A second spray may be necessary 14-21 days later. Corn earworm: Apply before cob penetration.
Pasture	Lucerne flea	200ml in 100-200 litres water	Aerial water rate: 50-100L/ha. Apply at first sign of clover damage, usually late autumn early winter.
	Army caterpillar	400ml in 100-200 litres water	Aerial water rate: 50-100L/ha. Apply at first sign of clover damage, usually where surface water has occurred.
	Porina caterpillar	1.2-1.6 litres in 100-200 litres water	Aerial water rate: 50-100 L/ha. Graze pastures before application.

## RATES OF APPLICATION - Horticultural Crops

CROP	PEST	RATE/100L water	COMMENTS
Grapes (not table grapes)	Aphids, Leafrollers, Mealy bug, Scale Crawlers, Thrips	50ml-75ml	Do not apply less than 1.0L/ha at full foliage. Good penetration of bunches is required for mealy bug control and where populations are large, use the higher rate. Repeat applications are needed: (1st) bud swell; (2nd) pre-flower; (3rd) post-flower; (4th) 14 days later and, thereafter, every three weeks until harvest.
Kiwifruit	Greedy scale and leafrollers	50ml	Do not apply less than 1.0L/ha. Use a non-ionic wetting agent. For total control two applications are required: (1st) at green tip. Do not apply within 10 days of last application of lime sulphur; (2nd) just prior to blossom. For greedy scale control, the cones, leaders and vines must be thoroughly covered. Do not spray when flowering.
Avocado	Greedy scale and Leafrollers	50-75ml	For aerial application use 1.6L/ha in sufficient water to achieve coverage. Apply pre-blossom, at complete petal fall and then at 21 day intervals to the end of April. Continue applications if leafrollers are present.
Pipfruit and Stonefruit	Brown beetle, Mealy bug, Scale, Crawler and Woolly Aphid	80ml	Do not apply less than 2.4L/ha on mature trees. For stonefruit apply at early bud movement with a recommended spraying oil. For pipfruit, apply at early bud movement with a recommended spraying oil and repeat 10-12 days later.

### 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:

- The location of the area the substance will be applied to.
- The date and approximate duration of each application.
- The steps to be taken by the notified parties to avoid exposure (e.g. closing windows and doors, moving laundry indoors, staying inside, etc.).
- The name of the organisation(s) undertaking the application.
- Contact details for the person in charge of the application (phone, email or postal address, including a contact number for immediate contact during application).

### RESISTANCE MANAGEMENT

GROUP 1

INSECTICIDE

An organophosphate compound

Hortcare® Chlorpyrifos 50 EC 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 Hortcare Chlorpyrifos 50 EC, 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

Registered pursuant to the ACVM Act 1997, No P4987 See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved substance under the HSN0 Act 1996, Approval code: HSR 000224 See [www.epa.govt.nz](http://www.epa.govt.nz)

for Controls and specific approval conditions.

**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 and distributed by:

**Grosafe**  
GROUP

Grosafe Chemicals Ltd  
20 Jean Batten Drive  
Mt Maunganui 3116  
POBox 14-450 Tauranga 3141  
Tel 0800 220 002 Email: [info@grosafe.co.nz](mailto:info@grosafe.co.nz)  
[www.grosafe.co.nz](http://www.grosafe.co.nz)

Batch No:

Date of Manufacture:

GSCHL024/B03

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