

# WARNING

Keep out of reach of children

# Grainex<sub>500EC</sub>

**For use in grain, grain stores and for fly control.**

Active Ingredient: contains 500g/litre pirimiphos-methyl in the form of an emulsifiable concentrate.

## ORGANOPHOSPHATE INSECTICIDE

GROUP	1	INSECTICIDE
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Registered pursuant to the ACVM Act 1997 No. P8811

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

HSNO Classifications: 3.1C, 6.1D, 6.3B, 6.4A, 6.8B, 6.9A, 9.1A, 9.3A, 9.4A.

EPA Approval Code: HSR000196

**This product must be under the care of an approved handler. Tracking applies.**

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

For specialist advice in a First Aid emergency only call:

National Poisons Centre on 0800 764 766.

**Net Contents: 5 litres**



**WARNING:** Flammable liquid and vapour. May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye and mild skin irritation. May cause reproductive/development effects from repeated ingestion. May cause neurological symptoms (See 'Symptoms of Poisoning' below) from repeated ingestion at high doses. Very toxic to aquatic organisms, terrestrial vertebrates and terrestrial invertebrates.

**ECOTOXICITY:** VERY TOXIC TO AQUATIC ORGANISMS. DO NOT contaminate an aquatic environment with chemical or empty container. DO NOT spray over, or allow drift to drift over, an aquatic environment. Grainex 500EC must not be applied onto or into water. DO NOT allow drift outside the target area to occur. Spray must not be applied in an area where bees are foraging.

**HANDLING PRECAUTIONS: EQUIPMENT:**

Apply using calibrated and maintained equipment in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409). Grainex 500EC must be applied via ground-based methods only.

**STORAGE:** Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs. Storage must be generally in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409).

**MAXIMUM APPLICATION RATE:** A maximum of 2.85 litres of Grainex 500EC can be applied per hectare, with a 4x crop cycle frequency.

**SPRAY DRIFT:** The person applying the 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.

**METHOD RESTRICTIONS:** This product cannot be applied indoors with high pressure handgun spray equipment.

**PERSONAL PROTECTIVE (PPE) AND RESPIRATORY PROTECTIVE EQUIPMENT (RPE):** Avoid contact with eyes and skin. Avoid inhalation of vapour or spray mist. When mixing or applying, wear chemical resistant overalls, chemical resistant boots and gloves, chemical resistant footwear plus socks, chemical resistant head gear, eye protection and respirator (organic vapour and particulate matter). 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.

Avoid handling, mixing or use of the product or container near heat, flame or other source of ignition.

Do not use near air vents or ducts. Apply with well maintained and calibrated spray equipment.

**THIS PRODUCT IS VERY TOXIC TO BEES. Do not apply this product to any plant or tree likely to be visited by bees:**

- a) At the time of application; or
- b) Immediately after application until spray has dried; or
- c) In areas where bees are foraging.

**NOTIFICATION:** Notification is only required for outdoor use, and when used in a wide dispersive manner. The person applying the substance in this situation must:

- Give written notice to anyone likely to be directly affected (such as owners and occupiers of land, property, buildings or houses immediately next to the application area).
- Ensure the notification is given at least 2 working days before, but no more than 4 weeks before, each application of the product.
- Ensure the written notice includes:
  - a) Where the product will be applied;
  - b) The date and approximate duration of each application;
  - c) The steps that notified parties should take to avoid exposure;
  - d) The name of the organisation(s) applying the product;
  - e) 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): The REI is 12 hours.** The person in charge is responsible for making sure no person enters the application area before the end of the REI. A person may only enter the indoor treated area if PPE and RPE is worn as if they were applying the substance, and they are entering to carry out tasks associated with the ventilation of the building or building structure.

**SPILLAGE:** Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to local Council regulations.

**DISPOSAL:** Triple rinse empty container and add rinsate to spray tank. Triple rinsed containers should be taken to an AgRecovery collection site. Otherwise crush and bury in a suitable landfill. Do not burn empty containers.



**Symptoms of Poisoning:** These may include excessive sweating, headache, weakness, faintness, giddiness, nausea, stomach pains, vomiting, small pupils, blurred vision and muscle twitching.

**First Aid:** 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.

**SAFETY DATA SHEET:** A Safety Data Sheet is available from Adria Crop Protection on request. Call 09 412 9817 or visit: [www.adria.nz](http://www.adria.nz)

**Batch No. and Manufacturing Date:** See on packaging

**Registered to and Distributed by:** Adria New Zealand Limited. P.O. Box 535, 407 State Highway 16 Kumeu, Auckland. Ph: 09 412 9817. Fax: 09 412 9807.

**Notice to Buyer:** Careful tests have proved that the product is suitable for the recommended purposes when used in accordance with our instructions. However, since storage and use of product are beyond our control, we do not therefore accept any liability for damage or loss of efficacy which may result from the use of this product, whether used in accordance with the directions or not. We are liable for a consistent quality of the product, but the risk of its storage and use is not borne by us.

**PLEASE READ THE LABEL COMPLETELY BEFORE USE.**

**IT IS AN OFFENCE to use this product on animals. 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.**

**DIRECTIONS FOR USE:**

**Grain / Storage Pests:**

Situation	Pest	Rate	Critical Comments
Disinfestation of empty grain stores, silos, grain handling equipment and the treatment of bagged small grains	Saw-toothed Grain Beetle, Granary Weevil, Maize Weevil, Rice Weevil, Red Flour Beetle, Confused Flour Beetle, Angoumois Grain	200 ml in 10 litres of water	Note: Lesser Grain Borer ( <i>Rhizopertha dominica</i> ) may require higher rates or an alternative material.
Unpainted concrete Surfaces.	Moth, Keuhniella, Mediterranean Flour	200 ml in 10 litres of water	Spray to point of run-off.
Other surfaces.	Moth, Fruit Moth,	100 ml in 10 litres of water	Spray to point of run-off.
Bagged grain.	Cereal Mite, Flour mite, Flat Grain Beetle, Indian Meal Moth,	50-100 ml in 5 litres of water per 100 square metres	Use the higher rate for existing infestations.
Admixture to stored Grain.	Lesser Meal Worm Hide Beetle, Psocids Brown House Moth, Bean Weevil, White Shouldered House Moth, Australian Spider Beetle, Cadelle, Dried Fruit Moth	8ml per tonne of grain	Recommended where long-term protection is required. Apply dilute with sufficient water to obtain uniform distribution. It is not essential to cover every grain as the fumigant action of Grainex 500EC will help with overall insect control.

**Flies / Wasps:**

<b>Situation</b>	<b>Pest</b>	<b>Rate</b>	<b>Critical Comments</b>
Indoor residual spray Slaughter houses, dairy factories, poultry houses, piggeries.	Flies	100 ml in 10 litres of water	For surfaces other than unpainted concrete. Remove all animals from areas to be treated and DO NOT use in areas where dairy or meat products or packaging materials are processed, packed or stored. Apply using a coarse spray, apply to wet all surfaces. Particular attention should be paid to areas where flies congregate. Repeat monthly or when flies reappear.
Outdoor Stockyards, around animal houses, refuse tips, bins and compost heaps.	Flies	500 ml in 10 litres of water per 100 square metres	Use after removing all animals from areas to be treated.
Outdoor nests	Wasps	100 ml in 10 litres of water	Thoroughly spray nests and surrounding area. Treat in the evening or early morning when wasps are not active. Plug entrance after treatment.

**GENERAL INFORMATION:** Grainex 500EC is a fast acting broad-spectrum organophosphate insecticide of low mammalian toxicity. It kills insects by contact, ingestion and fumigant action. Grainex 500EC controls a range of pests in grain, grain stores, livestock houses and yards. Insect pests controlled include: Flies, Wasps, Beetles, Weevils and Moths. Grainex 500EC provides rapid knockdown of insect pests and will persist on walls, floors and other inert surfaces to give residual control.

**PREPARATION:** All surfaces to be treated should be free of dust, dirt or food residues as these impair insecticide adhesion and encourage reinfestation. All exposed food and open food containers should be removed before treatment, or covered to avoid unnecessary contamination. Food contact surfaces should be thoroughly cleaned after application.

**APPLICATION:** Grainex 500EC may be applied through all conventional spraying equipment including knapsack and motorised sprayers. When applying as a spray, sufficient water should be used to wet all surfaces yet avoid run-off. All surfaces should be sprayed including floors, walls and ceilings, with particular attention to areas where insects breed and hide, such as cracks and crevices and warm areas around equipment. Note: In practice the actual amount of spray which can be applied to a surface without run-off varies. Normally 5 litres per 100 square metres will be sufficient, but on porous surfaces such as concrete, bricks and unpainted wood, up to 15 litres per 100 square metres may be required. In the interests of efficiency and economy it is necessary to consider the type of surface to be sprayed. Regular treatment may be necessary where washing or rain removes insecticide residues and on alkaline surfaces such as plaster or unpainted concrete.

**RESISTANCE MANAGEMENT:** Grainex 500EC is a **GROUP 1 INSECTICIDE** from the organophosphate chemical group. Resistance to this pesticide may develop from excessive use. To minimise this risk use strictly in accordance with label instructions. Avoid using this insecticide exclusively all season and avoid unnecessary spraying. Use insecticides from alternative chemical groups where possible. Maintain good cultural practices.