

POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

QUANTUM

Chlorpyrifos 500 EC

INSECTICIDE

ACTIVE CONSTITUENT: 500 g/L CHLORPYRIFOS
(an anticholinesterase compound)
SOLVENT: 480 g/L HYDROCARBON LIQUID

GROUP **1B** INSECTICIDE

For the control of certain insect pests in various situations as per the directions for use table.

THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.

APVMA Approval No.: 95791/147176

EC Formulation Type
Emulsifiable
Concentrate

**BE PROUDLY
AUSTRALIAN**

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 **QUANTUM
AGROSCIENCES**

DIRECTIONS FOR USE

RESTRAINTS

DO NOT use in or around publicly accessible residential, public or commercial areas.

DO NOT use in areas accessible to children.

DO NOT apply by aircraft.

DO NOT apply using equipment carried on the back of the user.

DO NOT apply using mechanically pressurized hand wand sprayer.

DO NOT spray polycarbonate surfaces/roof sheeting or aged vinyl wall cladding as solvent may cause etching.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift
DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The advisory buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are surface temperature inversion conditions present at the application site during the time of application. These conditions exist most evenings one to 2 hours before sunset and persist until one to 2 hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- spray droplets not smaller than a MEDIUM spray droplet size category
- * minimum distances between the application site and downwind sensitive areas (see 'Mandatory downwind buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers						
Application rate	Boom height above the target canopy	Mandatory downwind buffer zones (metres)				
		Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to 260 mL	0.5 m or lower	5	240	0	0	0
140 mL or lower	0.5 m or lower	0	110	0	0	0
	1.0 m or lower	20	350	10	0	10
70 mL or lower	0.5 m or lower	0	55	0	0	0
	1.0 m or lower	10	150	0	0	0

HORTICULTURAL AND FIELD CROPS			
CROP	INSECT	RATE Vol/ha	CRITICAL COMMENTS
Brassica Crops: Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Blue Oat Mite, Red-legged Earth Mite	140 mL/ha	DO NOT apply after 14 days of transplanting. In severe infestations, use of this product may not result in full control of pests. DO NOT apply more than once per year.
Forage Crops	Blue Oat Mite, Red-legged Earth Mite	70 to 140 mL	Spray when pests appear in large numbers, 3-6 weeks after autumn rains. DO NOT apply after stem elongation or rosette growth senescence (BBCH ≥40).
	Lucerne Flea	70 mL	Avoid spraying when pests are sheltering. Spray when at least 2.5 cm cover of crop is present. DO NOT spray if rain is imminent. DO NOT apply more than once per year.
Lucerne, Clover seed crops	Blue Oat Mite, Red-legged Earth Mite	140 to 260 mL/ha	Apply as ground spray immediately prior to seedling emergence using sufficient water to give good cover. DO NOT apply after seedling emergence. DO NOT apply more than once per year.
Lucerne and Medics in Forage Crops	Spotted Alfalfa Aphid, Bluegreen Aphid, Pea Aphid	200 to 260 mL/ha	Spray when aphids first appear. Seedling lucerne, medics: Apply 1-2 aphids/plant are observed. DO NOT apply once side shoots start to appear (BBCH ≥20). When a large number of aphids are invading the crop, use of this product may not result in full control of pests. DO NOT use on established lucerne. DO NOT apply more than once per year.

MISCELLANEOUS SITUATIONS			
SITUATION	PEST	RATE	CRITICAL COMMENTS
Commercial and industrial areas not accessible to the public	Ants	95 mL/10 L of water Use at least 1 L spray/10 m ² infested area	Locate ant nests and treat appropriately. Spray ant tracks or where ant activity is noticed. Apply to paths in continuous 300 mm bands. Apply to base of buildings, walls, fences, rock-works, trunks of shrubs and trees, and other hard surfaces to a height of 300 mm. Apply as a fine droplet spray. Outdoors only: Treat areas where animals frequent. Remove animals during treatment and until spray deposit is dry. DO NOT treat pets with this product. Pets should be treated with a product registered for application to animals.
	Argentine ants (outdoor use only)		
	Fleas (outdoor use only)	90 mL/10 L of water	
Commercial turf to which the public do not have access	Funnel Ant	Spot spraying: 5 mL/5 L water	For spot spraying apply 30 mL spray to each mound. In areas of high density a repeat application may be necessary to ensure thorough mound coverage.
Hides/skins	Hide Beetles	200 mL/100 L of water Use at least 30 mL of spray/skin	Apply spray to flesh side of skins or hides sufficient to moisten them. Ensure coverage of ears and lugs. To minimise the chance of later infestations, storage area should be sprayed regularly. Repeat application every 3 months.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS:

GRAZING

FORAGE CROPS, LUCERNE, CLOVER SEED CROPS AND MEDICS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 28 DAYS AFTER APPLICATION.

TURF AND LAWN: DO NOT GRAZE TREATED TURF OR LAWN; OR FEED TURF OR LAWN CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK.

HARVEST

BRASSICA CROPS: NOT REQUIRED WHEN USED AS DIRECTED.

TRADE ADVICE – Livestock Destined for Export Markets: The label withholding periods for grazing only apply to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that the ESI is observed before stock are sold or slaughtered.

EXPORT SLAUGHTER INTERVALS (ESIs)

Grazing animals: Grazing animals that have been grazing on or fed treated crops should be placed on clean feed for 21 days prior to slaughter for export.

Pigs: Pigs that have been fed treated crops should be placed on clean feed for 14 days prior to slaughter for export.

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions. Thorough coverage is essential.

MIXING

Slowly add the required amount of this product to water in spray tank under agitation. The special formulation of this product ensures rapid mixing.

SMALL SPILL MANAGEMENT

For small spill management, refer to instructions listed in the Safety Data Sheet.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management QUANTUM Chlorpyrifos 500 EC Insecticide is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to QUANTUM Chlorpyrifos 500 EC Insecticide and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if QUANTUM Chlorpyrifos 500 EC Insecticide or other Group 1B insecticides are used repeatedly. The effectiveness of QUANTUM Chlorpyrifos 500 EC Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Quantum Agrosiences Holdings Pty Ltd accepts no liability for any losses that may result from the failure of QUANTUM Chlorpyrifos 500 EC Insecticide to control resistant insects. QUANTUM Chlorpyrifos 500 EC Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Quantum Agrosiences Holdings Pty Ltd representative or local agricultural department agronomist.

GROUP 1B INSECTICIDE

RE-ENTRY PERIOD

DO NOT enter treated brassica crops for 8 days after treatment for scouting, hand harvesting or hand weeding. DO NOT enter treated forage crops, lucerne crops, clover seed crops or medics for 2 days after treatment for scouting or for 8 days after treatment for irrigation (hand set). When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be washed after each day's use.

These re-entry intervals do not apply if crops are treated pre-emergence or product is applied to soil at seed planting.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rains or storms are forecast within 3 days. DO NOT irrigate to the point of field runoff for at least 3 days after application.

Toxic to birds and wild mammals. However, the use of this product as directed is not expected to have adverse effects on birds or wild mammals.

PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Highly toxic to bees. To protect bees and pollinating insects, DO NOT apply when flowering plants or weeds are present. DO NOT use where bees are actively foraging. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray.

INTEGRATED PEST MANAGEMENT

Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

Refillable containers (1000 L only): Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

First Aid Warnings: Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. **WARNING** - Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.

SAFETY DATA SHEET

For further information refer to Safety Data Sheet (SDS) which can be obtained from the supplier.

CONDITIONS OF SALE: Quantum Agrosiences Holdings Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Quantum Agrosiences Holdings Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Quantum Agrosiences Holdings Pty Ltd has any authority to add to or alter these conditions.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: **Combustible liquid. Toxic if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye damage. Fatal if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe mist/vapours/spray. Wash all exposed external body areas thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. Avoid release to the environment.



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