

POISON

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



Hellfire® 500 EC

Insecticide

ACTIVE CONSTITUENT: 500 g/L PERMETHRIN (40:60)
SOLVENT: 385 g/L HYDROCARBON SOLVENT

For control of certain insect pests on crops
as specified in the Directions for Use.

DIRECTIONS FOR USE

CROP	PEST	STATES	APPLICATION RATE			WHP	CRITICAL COMMENTS
			GROUND	AERIAL	HIGH VOLUME		
Cabbages, Cauliflowers, Brussel Sprouts, Broccoli	Cabbage Moth (<i>Plutella xylostella</i>), Cabbage White butterfly (<i>Pieris rapae</i>)	All States	100 mL in 600-1000 L water/ha	–	10 mL/ 100 L spray to run off	2 days	Add WETSPRAY 600 at rate 10 mL/100 L water. Apply HELLFIRE 500 EC at the first sign of infestation and then as pest population indicates.
	Cabbage Cluster Caterpillar (<i>Crociodolomia binotalis</i>), Cabbage aphid* (<i>Brevicoryne brassicae</i>), Green Peach aphid* (<i>Myzus persicae</i>) * Suppression only	Qld only					
	Cluster caterpillar (<i>Spodoptera litura</i>)						
Citrus spp	Citrus leaf miner (<i>Phyllocnistis citrella</i>)	NSW only	10 mL/ 100 L water	–	–		During periods of leaf flush, nursery plants should be sprayed every 21 days when evidence of active citrus leaf miner infestation is present. A spray or dip should also be applied prior to despatch of plants from nurseries which are located in areas where the citrus leaf miner is known to occur. Sprays and dips should ensure thorough wetting of foliage.
Celery	Lucerne leaf roller (<i>Merophyas divulsana</i>)	WA only	–	–	50 mL/ 100 L	1 day	Apply every 7 days commencing 1 week after planting out up to within 2 days of harvest. Thorough application essential. Use wetting agent.
Field Peas	Native budworm (<i>Helicoverpa punctigera</i>)	Tas only	150-250 mL/ha in 200-500 L water/ha	150-250 mL/ha in 20-30 L water/ha	–	2 days	Apply at flowering as pest populations indicate. Use higher rate when larvae larger than 1 cm are present.



CROP	PEST	STATES	APPLICATION RATE			WHP	CRITICAL COMMENTS
			GROUND	AERIAL	HIGH VOLUME		
Green beans	Native budworm (<i>Helicoverpa punctigera</i>)	All States	150-200 mL/ha in 200-500 L water/ha	150-200 mL/ha in 20-30 L water/ha	–	3 days	Apply at flowering as pest populations indicate. Use higher rate when larvae larger than 1 cm are present.
	Corn earworm (<i>Helicoverpa armigera</i>)	Vic, NSW, SA, WA & Qld only					
Green peas	Native budworm (<i>Helicoverpa punctigera</i>) Corn earworm (<i>Helicoverpa armigera</i>)	NSW only	150-250 mL/ha in 200-500 L water/ha	150-250 mL/ha in 20-30 L water/ha	–	3 days	Apply from flowering as pest populations indicate. Use higher rate when larvae larger than 1 cm are present.
Lettuce	Cluster caterpillar (<i>Spodoptera litura</i>)	Qld only	10-20 mL/100 L	–	–	2 days	Apply as pest population indicates. Use higher rate if larvae larger than 1 cm are present.
Linseed	Native budworm (<i>Helicoverpa punctigera</i>)	Tas only	200-300 mL/ha in 30-100 L water/ha	200-300 mL/ha in 30-100 L water/ha	–	7 days	Apply as pest population indicates. Use higher rate if larvae larger than 1 cm are present.
Nurseries Flowers and other ornamentals except ferns	Native budworm (<i>Helicoverpa punctigera</i>) Tobacco Budworm (<i>Helicoverpa armigera</i>) Light brown apple moth (<i>Epiphyas postvittana</i>)	All States	100-200 mL in 1000 L water/ha	–	10-20 mL/100 L spray to run off	–	Apply at flowering as pest populations indicate. Use higher rate if larvae larger than 1 cm are present. Note: HELLFIRE 500 EC may cause leaf burn on some species when more than one spray is used.
Potatoes	Potato moth (<i>Phthorimaea operculella</i>)	All States	150-200 mL/ha in 100-250 L water/ha	150-200 mL/ha in 30-100 L water/ha	15-20 mL/100 L spray to run off	2 days	Treat infestation in early stages and then at 2-3 week intervals or as necessary. Use higher rate for dense canopy or if large larvae are present in vines.
Sweet corn	Native budworm (<i>Helicoverpa punctigera</i>) Corn earworm (<i>Helicoverpa armigera</i>)	All States	100-200 mL/ha in 200-450 L water/ha	–	15-20 mL/100 L spray to run off	2 days	Spray at tassle emergence then at 3-7 day intervals as necessary.
		Vic, NSW, Tas, WA only	–	250 mL/ha in 20-30 L water/ha	–		
		Qld only	–	200 mL/ha in 20-30 L water/ha	–		
Sugar cane	Common armyworm (<i>Mythimna convecta</i>), Northern armyworm (<i>P. separata</i>), Sugar cane armyworm (<i>Leucania loreymima</i>), Sugar cane looper (<i>Mocis frugalis</i>)	Qld & NSW only	–	100-200 mL/ha in 20-30 L water/ha	–	–	Apply as pest population indicates. Use higher rate if larvae larger than 1 cm are present.
Tobacco	Tobacco budworm (<i>Helicoverpa armigera</i>), Native budworm (<i>Helicoverpa punctigera</i>), Cluster caterpillar (<i>Spodoptera litura</i>)	Vic, NSW & Qld only	100-200 mL/ha in 250-600 L water/ha	–	10-20 mL/100 L spray to run off	2 days	Spray as indicated by crop checking. Usually a minimum interval is 7 days. Good spray coverage is essential. Use the higher rate when large larvae (more than 10 mm) are present.
Tomatoes	Tomato grub (<i>Helicoverpa armigera</i>)	Vic, NSW, SA, WA & Qld only	100-200 mL/ha in 500-1500 L water/ha	–	15-20 mL/100 L spray to run off	2 days	Apply as pest populations indicate from flowering. Usually 7-14 day intervals are required between sprays, with higher rates and shorter intervals necessary for continuous high pest incidence.
	Native budworm (<i>Helicoverpa punctigera</i>)	All States					
	Green looper (<i>Chrysodeixis</i> spp.) Potato moth (<i>Phthorimaea operculella</i>)	Qld, NSW, SA, WA only					



CROP	PEST	STATES	APPLICATION RATE			WHP	CRITICAL COMMENTS
			GROUND	AERIAL	HIGH VOLUME		
Wheat, Oats, Barley	Common armyworm (<i>Mythimna convecta</i>), Southern armyworm or Barley grub (<i>Persectania ewingii</i>)	All States	100-200 mL/ha in 30-100 L water/ha	100-200 mL/ha in 20-30 L water/ha	–	3 days	Apply as pest populations indicate. Use higher rate if larvae larger than 1 cm are present.
	WA webworm (<i>Hednota</i> spp.)	WA & SA only	50 mL/ha in 30-100 L water/ha	50 mL/ha in 30-100 L water/ha	–		Apply as pest populations indicate.
	Pink or common cutworm (<i>Agrotis</i> spp.)	WA & SA only	25 mL/ha in 30-100 L water/ha	25 mL/ha in 10-30 L water/ha	–		

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

WITHHOLDING PERIODS:

CELERY: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

COLE CROPS, FIELD PEAS, POTATOES, SWEETCORN, TOBACCO, TOMATOES, LETTUCE: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.

GREEN PEAS, GREEN BEANS WHEAT, OATS, BARLEY: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

LINSEED: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

INSECTICIDE RESISTANCE WARNING



For insecticide resistance management FARMOZ HELLFIRE 500 EC is a Group 3A insecticide.

Some naturally occurring insect biotypes resistant to HELLFIRE 500 EC and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if HELLFIRE 500 EC or other Group 3A insecticides are used repeatedly. The effectiveness of HELLFIRE 500 EC on resistant individuals could be significantly reduced.

Since the occurrence of resistant insects is difficult to detect prior to use, FARMOZ Pty. Ltd. accepts no liability for any losses that may result from the failure of HELLFIRE 500 EC to control resistant insects.

HELLFIRE 500 EC may be subject to specific resistance management strategies. For further information contact your local supplier, FARMOZ representative or local agricultural department agronomist.

MIXING

Mixes readily with hard or soft water.

Add the required quantity of product to water while under agitation. Agitate while spraying.

COMPATIBILITY

This product may be combined in the spray vat with any of the following FARMOZ products: WETSPRAY® 600, Copper Oxylchloride, APHIDEX®, also with Mancozeb, when combined with Copper Oxylchloride the spray mixture must be agitated. This product is not to be mixed with more than one of these products or with any other product.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT contaminate neighbouring crops or pastures with concentrate, spray or washings.

PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to bees. Dangerous to fish. DO NOT spray on any plants in flower while bees are foraging. Never repack from this container. DO NOT contaminate fish ponds, dams, drains, rivers or streams with chemical or the used container. DO NOT discharge waste liquid into waterways.

Spillages

Liquid spillages should be absorbed into pumice or vermiculite, NOT SAWDUST, and disposed of safely. Refer AVCARE Guidelines on Disposal of Spills. Contaminated area to be washed down, cold water washings to be prevented from entering any surface water drains. During decontamination, operators should wear overalls, rubber boots, face shield or goggles.

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 or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Product is harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container and preparing spray and using the prepared spray, wear elbow-length PVC gloves and face shield. 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 and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre on 131126. If swallowed, and more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF.

MSDS

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for HELLFIRE 500 EC is available from FARMOZ on request. Call Customer Service on (02) 9363 3611.

CONDITIONS OF SALE: The use of FARMOZ HELLFIRE 500 EC Insecticide being beyond the control of the manufacturer, no warranty expressed or implied is given by FARMOZ Pty. Ltd., regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and FARMOZ Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

WETSPRAY 600 & APHIDEX – Registered trademarks of FARMOZ Pty. Ltd.

© HELLFIRE is a registered trademark of FARMOZ Pty. Ltd.

PACK SIZE: 1 L, 5 L,

