

# POISON

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

# AXE<sup>®</sup>

## INSECTICIDE

ACTIVE CONSTITUENT: 500 g/L PERMETHRIN (40:60)  
SOLVENT: 396g/L LIQUID HYDROCARBONS

<b>GROUP</b>	<b>3A</b>	<b>INSECTICIDE</b>
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For the control of certain caterpillar pests of cereals, field peas, linseed, ornamentals, sugar cane, tobacco & vegetables as specified in the Directions for Use table

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT**

CONTENTS: 1 and 5 LITRE

Nufarm Australia Limited  
ACN 004 377 780  
103-105 Pipe Road, Laverton North Victoria 3026  
Tel: (03) 9282 1000  
nufarm.com.au

AXE<sup>®</sup> trade mark owned or used under license by Nufarm Australia Ltd.

## 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, nose, throat and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and face shield or goggles. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

## ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

**Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.**

**Suspected of causing cancer. May be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.**

**Combustible liquid.** Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Keep away from flames and hot surfaces. No smoking. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

## SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS), which can be obtained from your supplier or from the Nufarm website – [nufarm.com.au](http://nufarm.com.au)

**In case of emergency: Phone 1800 033 498** Ask for shift supervisor. Toll free 24 hours.

## Conditions of sale

“Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates (“Nufarm”) shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute.”

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**APVMA Approval No.: 54245/0308**

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**IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT**

## DIRECTIONS FOR USE

Crop	Pest	States	Application Rate			Withholding Period	Critical Comments
			Ground Application	Aerial	High Volume		
Cabbages Cauliflower 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 plus 'Shirwet' 600 wetting and spreading agent at 16 mL/100 L spray volume	-	10 mL/100 L spray to run off plus 'Shirwet' 600 wetting and spreading agent at 16 mL/100 L spray volume	2 days	Add 'Shirwet' 600 wetting agent to the spray mixture. Apply AXE 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 & WA only					
	Cluster caterpillar ( <i>Spodoptera litura</i> )		200 mL in 600-1000 L water/ha plus 'Shirwet' 600 wetting and spreading agent at 16 mL/100 L spray volume	-	20 mL/100 L spray to run off plus 'Shirwet' 600 wetting and spreading agent at 16 mL/100 L spray volume		
Citrus spp (Non-bearing trees only)	Citrus leaf miner ( <i>Phyllocnistis citrella</i> )	NSW, SA, Vic, Qld, WA & NT only	10 mL/100 L water	-	-	-	During period 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.

Crop	Pest	States	Application Rate			Withholding Period	Critical Comments
			Ground Application	Aerial	High Volume		
Celery	Lucerne leaf roller ( <i>Merophyas divulsana</i> )	All States	-	-	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. Add 'Shirwet' 600 wetting agent.
	Heliothis ( <i>Helicoverpa</i> spp.) Looper ( <i>Chrysodei</i> spp.)		200 mL/ha	-	20 mL/100 L		Thorough application coverage is essential. DO NOT apply two consecutive sprays. Alternate with other products approved from different chemical groups and mode of action. Add 'Shirwet' 600 wetting agent. HELIOTHIS: Delay the use of AXE which is disruptive to beneficials if Helicoverpa is the target pest. Use approved Bt or NPV products for use on celery while thresholds are low and caterpillars small (5-10mm). Limit AXE to control high density infestations, large spread of larval sizes and persistent egg lays. LOOPERS: Apply at first signs of infestation for Loopers.
Field peas	Native budworm ( <i>Helicoverpa punctigera</i> )	SA, WA, NSW, Vic & 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 10mm are present.
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 population indicates. Use higher rate when larvae larger than 10mm are present.
	Tobacco budworm ( <i>Helicoverpa armigera</i> )	Vic, NSW, SA, WA & Qld only					
Green peas	<i>Helicoverpa</i> spp.	All States	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 10mm are present.
Lettuce	Cluster caterpillar ( <i>Spodoptera litura</i> )	All States	10-20 mL/100 L	-	-	2 days	Apply as pest population indicates. Use higher rate if larvae larger than 10mm are present.
Linseed	Native budworm <i>Helicoverpa punctigera</i>	All States	200-300 mL/ha in 30-100 L water/ha	200-300 mL/ha in 10-30 L water/ha	-	7 days	Apply as pest populations indicate. Use higher rate when larvae larger than 10mm are present.
Nurseries, flowers & other ornamentals except ferns	<i>Helicoverpa</i> spp. Light brown apple moth ( <i>Epiphyas postvittana</i> )	All States	100-200 mL in 1000L water/ha	-	10-20 mL/100 L spray to run off	-	Apply as pest populations indicate. Use higher rate when larvae larger than 10mm are present. Note: AXE may cause leaf burn on some species when more than one spray is used.

Crop	Pest	States	Application Rate			Withholding Period	Critical Comments
			Ground Application	Aerial	High Volume		
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	<i>Helicoverpa spp.</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 tassel emergence then at 3-7 day intervals as necessary
		Vic, NSW, Tas, SA & WA only	-	250 mL/ha in 20-30 L water/ha	-		
		Qld only	-	200 mL/ha in 20-30 L water/ha	-		Spray at tassel emergence than 3-4 day intervals as necessary.
Sugar Cane	Common armyworm ( <i>Mythimna convecta</i> ) Northern armyworm ( <i>P. separata</i> ) Sugar cane armyworm ( <i>Leucania loreymimima</i> ) Sugar cane looper ( <i>Mocis frugalis</i> )	Qld, WA & NSW only	-	100-200 mL/ha in 20-30 L water/ha	-	-	Apply as pest population indicates. Use a higher rate if larvae larger than 10mm are present.
Tobacco	Tobacco budworm ( <i>Helicoverpa armigera</i> ) Native budworm ( <i>Helicoverpa punctigera</i> ) Cluster caterpillar ( <i>Spodoptera litura</i> )	Vic, WA, 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.

Crop	Pest	States	Application Rate			Withholding Period	Critical Comments
			Ground Application	Aerial	High Volume		
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>Chrysodexis spp</i> ) Potato moth ( <i>Phthorimaea operculella</i> )	Qld, NSW, SA & WA only		-			
Wheat, Oats & Barley	Common armyworm ( <i>Mythimna convecta</i> ) Southern armyworm 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 10mm are present.
	WA webworm ( <i>Hednota spp</i> )	WA & SA only	50 mL/ha in 30-100 L water/ha	50 mL/ha in 10-30 L water/ha	-		Apply as pest populations indicate.
	Pink or common cutworm ( <i>Agrotis spp</i> )		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 PERIOD**

**DO NOT HARVEST THE FOLLOWING CROPS FOR THE NUMBER OF DAYS SHOWN AFTER APPLICATION :**

- 1 Day - Celery**
- 2 Days - Cole crops, Field peas, Lettuce, Potatoes, Sweetcorn, Tobacco, Tomatoes**
- 3 Days - Green peas, Green beans, Wheat, Oats, Barley**
- 7 Days - Linseed**



## GENERAL INSTRUCTIONS

**AXE** is a contact and residual synthetic pyrethroid insecticide. Thorough spray coverage of crops is essential to ensure adequate control. This product can be used as a protective treatment when applied at regular intervals or as a knockdown treatment to control existing larvae.

### Insecticide Resistance Warning

GROUP	3A	INSECTICIDE
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For insecticide resistance management AXE Insecticide is a Group 3A insecticide.

Some naturally occurring insect biotypes resistant to AXE Insecticide 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 AXE Insecticide or other Group 3A insecticides are used repeatedly. The effectiveness of AXE Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of AXE Insecticide to control resistant insects.

AXE Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Nufarm Australia Limited representative or local agricultural department agronomist.

**APPLICATION:** AXE can be applied by low volume boom spray, in high volume, or in aircraft. The Directions for Use table contains details of the water volumes to use for specific crops and methods of application. Applications should be made as a fine spray preferably using hollow cone nozzles and a droplet size of 150-200 microns. If possible apply during the cooler parts of the day or evening. If applying this product by aircraft spray in a cross wind. Avoid spraying in calm conditions or when wind is light and variable.



**spraywisedecisions.com.au** is an online weather forecasting program and is recommended for use when planning your pesticide application.

**MIXING:** Add the required quantity to water in the spray tank and mix thoroughly. Maintain agitation during mixing and application. This product mixes readily with hard or soft water.

**COMPATIBILITY:** AXE is compatible with most commonly used fungicides and insecticides, including copper oxychloride, Dithane M-45\* and Antracol\*. Do not mix with more than one of these products.

### PROTECTION OF CROPS AND NON-TARGET PLANTS

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

### PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray on any plants in flower while bees are foraging.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

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\* Other trade marks

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