

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

# CLAMA® 50SC

**INSECTICIDE**

**ACTIVE CONSTITUENT:**  
**50g/L Emamectin**  
**present as Emamectin Benzoate**

*For the control of Diamondback Moth (Cabbage Moth) and Cabbage White Butterfly in Brassica Vegetables, Light brown Apple Moth and Grapevine Moth in Grapes and Heliothis in Capsicum, Lettuce, Sweet Corn and Tomatoes as indicated in the Directions for Use table.*

## Insecticide

## APPLICATION RATES

CROP	PEST	RATE	CRITICAL COMMENTS
<b>Brassica Vegetables</b> Broccoli, Brussels Sprouts, Cabbages, Cauliflower only	Diamondback Moth (Cabbage Moth) ( <i>Plutella xylostella</i> ), Cabbage White Butterfly ( <i>Pieris rapae</i> )	220mL to 264mL/ha	Spray at first signs of insect infestation as indicated by local spray thresholds. Use the lower rate on low to moderate infestations. Add Citowett* or Agral® at the appropriate label rate. DO NOT make more than 4 applications to any brassica crop. Where more than one crop is grown DO NOT make more than 4 applications of Clama Insecticide in any one year. Clama Insecticide should be used according to CropLife insecticide resistance strategy.
<b>Capsicum, Lettuce</b>	Heliothis ( <i>Helicoverpa armigera</i> , <i>Helicoverpa punctigera</i> )	132 to 220mL/ha	Spray at first signs of insect infestation as indicated by local spray thresholds. For best results apply soon after the <i>Helicoverpa</i> eggs have hatched. DO NOT apply more than 4 sprays of Clama Insecticide per crop. Where more than one crop is grown per year DO NOT apply more than 4 sprays per year. Ensure thorough spray coverage. Use the lower rate when targeting light infestations of small larvae. Use 220 mL /ha during periods of heavy insect pressure or under very hot and sunny conditions. Clama Insecticide should be used according to the CropLife resistance strategies.
<b>Grapes</b> (Except grapes grown for dried fruit production)	Lightbrown Apple Moth ( <i>Epiphyas postvittana</i> ) Grapevine Moth ( <i>Phalaenoides glycinae</i> )	<b>Dilute Spraying</b> 13.2mL/100L	DO NOT apply after bunch closure. For optimal control of Lightbrown Apple Moth apply soon after egg lay when larvae are small in size and before larvae become webbed into the bunches. Eggs laid after application on new growth may not be controlled. For Grapevine Moth control, spray when local threshold levels have been reached. Monitor pest levels after application, a further application may be required (minimum re-treatment interval: 7 to 14 days). Apply by dilute or concentrate spraying equipment. Apply a maximum of 2 applications. Ensure thorough coverage. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
		<b>Concentrate Spraying:</b> Refer to the Mixing/ Application Section	
<b>Sweetcorn</b>	Heliothis ( <i>Helicoverpa armigera</i> , <i>Helicoverpa punctigera</i> )	132 to 220mL/ha	For best results apply just prior to or just after the <i>Helicoverpa</i> eggs have hatched, but before larvae enter the cob. DO NOT apply more than four (4) sprays of Clama Insecticide or other Group 6 insecticides per crop. Where more than one crop is grown per year DO NOT apply more than four (4) sprays per year. Thorough spray coverage is critical. Larvae present within the cob at the time of spraying may not be controlled. Use the lower rate when targeting light infestations of small larvae. Use the higher rate during periods of heavy insect pressure or under very hot and sunny conditions. Clama Insecticide should be used according to the CropLife resistance strategies.
<b>Tomatoes</b>	Heliothis ( <i>Helicoverpa armigera</i> , <i>Helicoverpa punctigera</i> )	<b>Dilute spraying:</b> 132 to 220mL/ ha or 13.2 to 22mL/100L for trellised tomatoes	Spray at first signs of insect infestation as indicated by local spray thresholds. For best results apply soon after the <i>Helicoverpa</i> eggs have hatched. DO NOT apply more than four (4) sprays of Clama Insecticide or other Group 6 insecticides per crop. Where more than one crop is grown per year DO NOT apply more than four (4) sprays per year. Ensure thorough spray coverage. Use the lower rate when targeting light infestations of small larvae. Use 220 mL/ha during periods of heavy insect pressure or under very hot and sunny conditions. <b>Trellised Tomatoes:</b> In the case of dilute spraying (g/100 L) apply in the range of 400 to 500 L/ha after transplanting and increase to 800 to 1000 L/ha at full canopy. Clama Insecticide should be used according to the CropLife resistance strategies.
		<b>Concentrate Spraying:</b> Refer to the Mixing/ Application section	

## Insecticide

**WITHHOLDING PERIODS:**

**Brassica vegetables:** do not harvest for 3 days after application. Do not use treated crop, crop waste or produce for stock food.

**Capsicum, lettuce, tomatoes:** do not harvest for 3 days after application. Do not allow livestock to graze treated crops or crop stubble.

**Grapes:** do not harvest for 8 weeks after application. Do not graze treated areas, or cut for stock food, for 8 weeks after application.

**Sweet corn:** do not harvest for 3 days after application. Do not graze or cut for stock food for 21 days after application.

**TRADE ADVICE**

Treated crop commodities destined for export may require extra time being allowed between application and harvest, as some export market have either no Maximum Residue Limits (MRLs) or different MRLs to those of Australia. Details of overseas standards and any export interval can be obtained by contacting the Supplier before using this product.

**RESISTANCE WARNING** **GROUP 6 INSECTICIDE**

For insecticide resistance management Clama Insecticide is a Group 6 insecticide. Some naturally occurring insect biotypes resistant to Clama Insecticide and other Group 6 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Clama Insecticide or other Group 6 insecticides are used repeatedly. The effectiveness of Clama Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant insects is difficult to detect prior to use, GroChem Pty Ltd accepts no liability for any losses that may result from the failure of Clama Insecticide to control resistant insects. Clama Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Grochem representative or local agricultural department agronomist.

**PRECAUTIONS**

Re-entry Period: DO NOT allow entry into treated areas for 8 hours or until the spray has dried. If prior entry is necessary, wear chemical resistant gloves.

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

Dangerous to fish and other aquatic organisms. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers. DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, water bodies or watercourses.

**PROTECTION OF LIVESTOCK**

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

**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 to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

**SAFETY DIRECTIONS**

Harmful if swallowed. May irritate the skin. Will irritate the eyes. Avoid contact with eyes and skin. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves and face shield or goggles. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

## GENERAL INSTRUCTIONS

**MIXING:** Add the required amount of Clama Insecticide to a partly filled spray tank then add the remainder of the water.

**APPLICATION:** Clama Insecticide is not systemic making good coverage essential – ensure thorough coverage of the crop. DO NOT apply by aerial application.

**Brassica Vegetables:** Apply Clama Insecticide in a minimum of 400L water/ha.

**Capsicums, Lettuce, Sweet Corn, Tomatoes:** Ensure thorough coverage of the crop.

**Grapes:** Apply Clama Insecticide in a minimum of 250L water/ha.

### MIXING/APPLICATION – GRAPES AND TRELLISED TOMATOES:

**Dilute Spraying:** Use a sprayer designed to apply high volumes of water up to the point of runoff and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of runoff. Avoid excessive runoff. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions for Use table for each 100L of water. Spray to the point of runoff. The required dilute spray volume will change and the sprayer set up and operation may also need to be changed as the crop grows.

**Concentrate Spraying:** Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of runoff) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume. Determine an appropriate dilute spray volume (see Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate spraying can then be calculated in the following way:

*Example only:*

1. Dilute spray volume as determined above: for example 1000L/ha

2. Your chosen concentrate spray volume: for example 500L/ha

3. The concentrate factor in this example is 2 x (ie.  $1000L \div 500L = 2$ )

4. If the dilute label rate is 15g/100L, then the concentrate rate becomes 2x15, that is 30g/100L of concentrate spray.

The chosen spray volume, amount of product per 100L of water, and the sprayer set and operation may need to be changed as the crop grows. For further information of concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices..

### CONDITIONS OF SALE

As no control can be exercised over the manner in which or the conditions under which this product is used, all conditions and warranties expressed or implied, other than those required by statute are excluded. No responsibility will be accepted for any damage or injury whatsoever arising from the storage, handling, application or use of this product..

### FIRST AID INSTRUCTIONS

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

### SAFETY DATA SHEET

If additional hazard information is required refer to the Safety Data Sheet. For a copy phone 1800 777 068 or visit our website, [www.grochem.com](http://www.grochem.com)

### LIMIT OF LIABILITY

Grochem Australia accepts responsibility for the consistent quality of the product. Grochem Australia accepts no responsibility whatsoever for any damage, injury or loss following purchase and use of this product. The extent of liability of Grochem Australia is limited to the replacement of goods or a refund on the price paid. This being conditional upon a claim being made in writing and within 30 days of delivery/receipt of product. This product must also be used in strict accordance with the directions as detailed on this label. The buyer accepts and uses this material with an understanding of the above conditions.

**APVMA APPROVAL NO. :** 89922/126351

Clama® is a registered trademark of Grochem Australia Pty Ltd. \*Citowett and Agral are registered trademarks.

**ADDITIONAL STATEMENTS AS REQUIRED BY SAFE WORK AUSTRALIA IN ACCORDANCE WITH THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING (GHS):** Harmful if swallowed. Keep out of reach of children. DO NOT breath dust/mist/vapours/spray. May cause damage to organs through prolonged or repeated exposure.

**IN A TRANSPORT EMERGENCY  
DIAL 000  
POLICE OR FIRE BRIGADE.**

**Specialist advice in emergency only  
1800 033 111  
ALL HOURS – AUSTRALIA WIDE**