

**POISON**

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

**SureFire**

**EXCLAIM 44 SG\***

**INSECTICIDE**

**ACTIVE CONSTITUENT:**

**44 g/kg EMAMECTIN present as EMAMECTIN BENZOATE**

**GROUP 6 INSECTICIDE**

**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**

**IMPORTANT: READ THIS BOOKLET BEFORE USE**



**HOLDINGS PTY LTD**

**APVMA Approval No: 86238/124954**

**\*SUREFIRE Exclaim 44 SG is a registered trademark of PCT INTERNATIONAL PTY LTD  
(PCT Holdings Pty Ltd ABN 11 099 023 962)**

**5/74 Murdoch Circuit, Acacia Ridge QLD 4110 • <http://pctrural.com.au>**

**CUSTOMER SERVICE FREECALL 1800 630 877 EMERGENCY RESPONSE (ALL HOURS) FREECALL 1800 630 877**

## DIRECTIONS FOR USE

CROP	PEST	RATE	CRITICAL COMMENTS
<b>Brassica Vegetables</b> Broccoli, Brussels Sprouts, Cabbages, Cauliflower only	Diamondback Moth (Cabbage Moth) ( <i>Plutella xylostella</i> ) and Cabbage White Butterfly ( <i>Pieris rapae</i> )	250 to 300 g/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 Agraal® 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 Surefire Exclaim in any one year. Surefire Exclaim should be used according to CropLife insecticide resistance strategies.
<b>Capsicum, Lettuce</b>	Heliothis ( <i>Helicoverpa armigera</i> and <i>Helicoverpa punctigera</i> )	150 to 250 g/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 Surefire Exclaim 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 250 g/ha during periods of heavy insect pressure or under very hot and sunny conditions. Surefire Exclaim should be used according to the CropLife resistance strategies.

## STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of 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. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing the product for use, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and goggles or face shield. 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, New Zealand 0800 764 766.

## SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet which is available from PCT Holdings Pty Ltd on request. Call Customer Service Toll Free on 1800 630 877 or visit our web site at <http://pct.au.com>

## CONDITIONS OF SALE

PCT Holdings Pty Ltd warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with Directions for Use under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the of the product contrary to label instructions or under off-label permits not endorsed by PCT Holdings Pty Ltd or under abnormal conditions.

## INSECTICIDE RESISTANCE WARNING

GROUP	6	INSECTICIDE
-------	---	-------------

For insecticide resistance management, Surefire Exclaim 44 SG Insecticide is a Group 6 Insecticide. Some naturally occurring insect biotypes resistant to Surefire Exclaim and other Group 6 insecticides may exist through normal genetic variability in any insect population. Repeated use of one particular insecticide or insecticides from the same chemical group can lead to the early development of insect resistance to that insecticide or chemical group. The effectiveness of Surefire Exclaim on resistant individuals could be significantly reduced. Resistant individuals can eventually dominate the insect population if Surefire Exclaim and other Group 6 insecticides are used repeatedly. Surefire Exclaim should not be applied more than two times per season and do not apply as consecutive applications. Since occurrence of resistant individuals is difficult to detect prior to use, PCT Holdings Pty Ltd accepts no liability for any losses that may result from the failure of Surefire Exclaim to control resistant insects. Surefire Exclaim may be subject to specific resistance management strategies. For further information contact your local supplier, PCT Holdings representative or local agricultural department agronomist.

### PRECAUTION

**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.

CROP	PEST	RATE	CRITICAL COMMENTS
<b>Grapes</b> Except grapes grown for dried fruit production	Light Brown Apple Moth, Grapevine Moth	<b>Dilute Spraying</b> 15 g/100 L <b>Concentrate Spraying</b> Refer to the Mixing/ Application Section	DO NOT apply after bunch closure. For optimal control of Light Brown 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>Sweet Corn</b>	Heliothis ( <i>Helicoverpa armigera</i> , <i>Helicoverpa punctigera</i> )	150 to 250 g/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 4 sprays of Surefire Exclaim per crop. Where more than one crop is grown per year DO NOT apply more than 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. Surefire Exclaim should be used according to the CropLife resistance strategies.
<b>Tomatoes</b>	Heliothis ( <i>Helicoverpa armigera</i> , <i>Helicoverpa punctigera</i> )	150 to 250 g/ha or 15 to 25 g/100 L (dilute spraying) for trellised Tomatoes. <b>Concentrate Spraying</b> Refer to the Mixing/ Application section	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 Surefire Exclaim 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 250 g/ha during periods of heavy insect pressure or under very hot and sunny conditions. <b>Trellised Tomatoes: 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.</b> Surefire Exclaim should be used according to the CropLife resistance strategies.

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

#### 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 STOCKFEED, 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**

#### EXPORT 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 PCT Holdings Pty Ltd before using this product.

#### GENERAL INSTRUCTIONS

##### MIXING

Add the required amount of Surefire Exclaim to a partly filled spray tank, and then add the remainder of the water.

##### APPLICATION

Surefire Exclaim is not systemic making good coverage essential - ensure thorough coverage of the crop.

##### DO NOT apply by aerial application

Brassica Vegetables: Apply Surefire Exclaim in a minimum of 400 L water/ha.

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

Grapes: Apply Surefire Exclaim in a minimum of 250 L 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 100 L 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) 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 1000 L/ha
2. Your chosen concentrate spray volume: For example 500 L/ha
3. The concentration factor in this example is:  $2 \times X$  (i.e.  $1000 \text{ L} \div 500 \text{ L} = 2$ )
4. If the dilute label rate is 15 g/100 L, then the concentrate rate becomes  $2 \times 15$ , that is 30 g/100 L of concentrate spray

The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.