

# PAN GENIE

Pan Genie controls chewing insects in horticultural and agricultural cultivations. It contains 200g/L Chlorantraniliprole as a suspension concentrate.

## RISK AND SAFETY INFORMATION

### PAN GENIE

Contains 200 g/l chlorantraniliprole

**Very toxic to aquatic life with long lasting effects.**

Keep out of the reach of children

Read label before use

Do not eat, drink or smoke when using this product.

Collect spillage

### WARNING

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except to triple rinsed empty containers which can be disposed of as non-hazardous waste.

Do not contaminate water with the product or its container. (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads.

**TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE PCS 07443**

UFI: TAYW-M2TA-5N4P-4CN5

## SAFETY PRECAUTIONS

**ENVIRONMENTAL PROTECTION** Do not contaminate surface water or ditches with the chemical or its container. To protect aquatic organisms, respect an unsprayed buffer zone of 10 m to surface water when applying to maize, sweetcorn, carrots, parsnips, root parsley, beetroot, celeriac, horseradish, Jerusalem artichoke, radish, salsify, swede and turnip. To protect aquatic organisms, respect an unsprayed buffer zone of 20 m to surface water bodies when applying to cabbage, broccoli, cauliflower, apples, pears and plums.

**STORAGE AND DISPOSAL:** Keep out of reach of children; Keep away from food, drink and animal feedingstuffs; This material and its container must be disposed of in a safe way; KEEP IN ORIGINAL CONTAINER tightly closed and in a safe place.

## FOR PROFESSIONAL USE ONLY

Protect from Frost. Shake well before use



# 500ml

## IMPORTANT INFORMATION For use only as an agricultural/horticultural professional insecticide

Crops	Max.single dose (ml/ha)	Max. total dose (ml/ha)	Latest time of application
Maize, sweetcorn	125	250	(GS73 to GS87) 7 days before harvest
Cauliflower, Broccoli, Head cabbage, Savoy cabbage	125	250	1 day before harvest
Carrot, parsnip, root parsley, beetroot, celeriac, horseradish, Jerusalem artichoke, radish, salsify, swede, turnip	175	350	21 days before harvest
Qualified Minor uses *			
	Max.single dose(ml/ha)	Max.total dose (ml/ha)	Latest time of application
Potatoes	60	120	14 days before harvest
Apples, pears, plums	262.5	525	14 days before harvest
Grapes	210	210	30 days before harvest

\* There is limited evidence of crop safety and/or product efficacy available for qualified minor uses and the commercial risk of using this product under these Qualified Minor Uses is borne entirely by the grower.

**Other Specific restrictions:** Applications to potatoes must not occur in consecutive years.

### Method of application:

Tractor mounted sprayer/trailed sprayer, Orchard sprayer.

### Other Specific Restrictions

The number of applications of Pan Genie of other Group 28 insecticides is limited to two per crop.

**Read the label before use. Using this product in a manner that is inconsistent with the label may be an offence.**

**Follow the Code of Practice for using Plant Protection Products.**

**Authorisation Holder:** Pan Agriculture Ltd, 8 Cromwell Mews, Station Road, St Ives, Cambridgeshire, PE27 5HJ

Tel: 0044 (0)1480 467790 Email: [info@panagriculture.co.uk](mailto:info@panagriculture.co.uk)

In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964

This product has been re-labelled / re-packed by an approved packing facility.

## DIRECTIONS FOR USE

### RESTRICTIONS

Drought, waterlogging, low temperature, disease attack and nutrient or lime deficiency can all limit crop development: do not apply PAN GENIE during these conditions.

Never apply PAN GENIE to flowering crops or in the presence of other flowering crops. For the protection of bees and pollinating insects, it is advised to use this product in the early morning or late evening.

### INSECT CONTROL

As an anthranilic insecticide Group 28, PAN GENIE controls the larvae of several caterpillar (Lepidopteran) and beetle (Coleopteran) species. It prevents insect activity via ingestion or direct contact. After contact, the pest becomes paralysed, rendering it unable to move or feed. Complete control of the pest can take 2 – 4 days.

It is possible for PAN GENIE to be used within an Integrated Pest Management (IPM) program, which aims to counter economic pest damage, including biological, cultural and genetic practices. These practices are inclusive of field scouting, other detection methods, target pest identification, population action and the treatment of target pest populations which have deemed to have reached damaging levels.

Always refer to your crop advisor when seeking the most appropriate treatment level for applications to specific pest/crop or local site systems.

### INSECT RESISTANCE

After several years, resistant strains of pests can begin to thrive in a field that has been continuously treated with insecticides of the same mode of action, controlling the same species. Follow the IRM (insecticide resistance management) advice listed below and use Pan Genie as part of an Integrated Pest Management program which combines cultural and biological principles. For further details consult with your agronomist.

This product may not offer sufficient control if resistance to it has developed in your local area.

No more than 2 applications of Pan Genie per season are allowed.

Follow the advice below to avoid resistance to Pan Genie or to insecticides in Group 28.

- Use a 'Window Approach' when applying insecticides from Group 28 including Pan Genie. This will ensure that pests from consecutive generations are not targeted with an insecticide with the same mode of action.
- A 'window' is characterized by a single, multiple or sequence treatments with insecticides that have the same mode of action within a month.
- If the target is of one cohort, then two applications of Pan Genie are allowed. If though applying to the next cohort, then a product with a different mode of action should be used.
- Group 28 Insecticides should not make more than half of all Group 28 active windows for a single crop.
- Use at the recommended rate, do not reduce the rates as this will encourage resistance developing.
- Visit <http://www.irac-online.org> for further information regarding Insecticide Resistance.

## CROPS

### Broccoli, Cauliflower, Savoy Cabbage, Head Cabbage

Apply Pan Genie at a rate of 125 ml/ha using a water volume of 300 – 800 L/ha. Pan Genie controls the following pests: *Mamestra brassicae*, *Pieris brassicae*, *Evergestis forficalis*, *Pieris rapae*, *Cleptis spectrana* and *Lepidoptera* species including *Plutella xylostella*. For optimum results the application must be made at the egg-laying stage before the egg-hatching begins. If possible, act in accordance with the time guidance for the ovilarvicide materials. No more than two applications within a 12-month period are allowed. If further applications are required use an insecticide with a different mode of action.

### Parsnip, Beetroot, Root Parsley, Jerusalem Artichokes, Horseradish, Radish, Salsify, Celeriac, Carrot, Swede and Turnip

Apply Pan Genie at a rate of 175 ml/ha using a water volume of 300 – 800 L/ha (usual volume sprayers). Pan Genie controls carrot root fly and only moderately controls this pest on carrots. For best results apply during the egg-laying stage before the adult pests reach their peak flying stage (2nd or 3rd generation). Limit the applications to 2 within a 12-month period and respect a 14 day interval between the applications. If further applications are required use an insecticide with a different mode of action.

### Maize and Sweetcorn

Apply Pan Genie at a rate of 125 ml/ha using a water volume of 300 – 800 L/ha. The application should be made with a boom sprayer. Pan Genie controls European Corn Borer (*Ostrinia nubilalis*). For optimum results apply during the egg-laying stage before the egg-hatching begins. If possible, act in accordance with the time guidance for the ovilarvicide materials. No more than two applications within a 12-month period are allowed. If further applications are required use an insecticide with a different mode of action.

### \* Minor Use Qualification

\* There is limited evidence of crop safety and/or product efficacy available for qualified minor uses and the commercial risk of using this product under these Qualified Minor Uses is borne entirely by the grower.

### \* Potato

Apply Pan Genie at a rate of 50 – 60 ml/ha using a water volume of 200 – 600 L/ha. The application should be made using a boom sprayer. Pan Genie controls Colorado beetle (*Leptinotarsa decemlineata*). For best results apply at the egg-hatching stage or when the first signs of crop damage are observed. If the infestation is very high a second application may be made using the higher dose after a 14-day interval. Limit the applications to two per crop.

### \* Plum, Pear and Apple

Apply Pan Genie at a rate of 175 ml/ha for the following trees:

- 3.75 m height planted in a single row method
- 3.25 m height planted in a 2 or 3 row method
- 2.25 m height planted in a 5-row method

For trees that are higher and/or the canopy is decreased consult a dose adjustment scheme such as PACE. If applying a decreased rate of product and water volume, ensure that the application rate is at least 150 ml/ha.

Pan Genie controls Codling moth (*Cydia* spp.) in Apples, Pears and Plums. For best results the application should be made during the egg-laying stage at the ovicide timing and before the egg hatching and fruit damage appear. Limit the applications at 2 per year allowing a minimum of 14 days between applications. If further applications are required use an insecticide with a different mode of action.

#### **\* Grapes**

Apply Pan Genie at a rate of 150 – 210 ml/ha using a water volume of 600 – 1200 L/ha. Pan Genie controls Grape berry moth *Lobesia botrana*, *Clysia ambiguella*, *Argyrotaenia pulchellana*. For optimum results application should be made during the egg-lying stage at the ovicide timing, and before the egg hatching and fruit damage appear. Ideally target the 2nd generation of pests. Limit the application to one per season. If more insecticide applications are required, use a programme where Pan Genie is alternated with approved appropriate insecticides with a different mode of action.

### **MIXING AND SPRAYING**

Ensure all spraying equipment is thoroughly clean before using PAN GENIE. Follow these steps to achieve easy mixing and spraying: fill the spray tank to a quarter full with clean water, begin agitation and add the correct amount of PAN GENIE. Maintain agitation when filling the tank further and during spraying.

### **CLEANING**

Drain the spray equipment immediately after use. Ensure the hoses, boom and nozzles have been completely rinsed and flushed with clean water. Remove any residue and flush the entire system with more clean water. Exercise all relevant safety precautions when cleaning the equipment. Clean away from water sources and always consult tank clean-up procedures. Consult the manufacturer's cleaning instructions for the sprayer.

### **TANK MIXES**

Ensure that the mixture is approved for all the separate ingredients before using Pan Genie in a tank-mix. When making the mixture add Pan Genie to the tank first and only then add the other products.