

OPTIL INSECTICIDE

GROUP 28 INSECTICIDE



For the control of certain insect pests in a range of crops.
See detailed label text for specific crop approval information.

**FORAGE AND GRAIN MAIZE, SWEETCORN,
BRASSICAS, ROOT VEGETABLES**

**QUALIFIED MINOR USES: POTATOES,
APPLES, PEARS, PLUMS, GRAPES**

PCS No. 07577

**200 g/L chlorantraniliprole
Suspension
Concentrate (SC)**

NET CONTENTS: 1L

**FOR USE ONLY AS A
PROFESSIONAL INSECTICIDE**

life scientific
FIRST TO MARKET



OPTIL - PCS No. 07577

Contains chlorantraniliprole 200 g/L as a suspension concentrate (SC) formulation.
OPTIL is an insecticide for use on agricultural and horticultural crops for the control of chewing insect pests.

WARNING



Risk and Safety Information

Very toxic to aquatic life with long lasting effects

Keep out of reach of children.

Read the label before use.

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

Collect spillage.

Wear protective gloves / protective clothing / eye protection / face protection

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

TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

PCS No. 07577

UFI: A5GP-97NN-J20W-GCAD

IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL AGRICULTURAL AND HORTICULTURAL INSECTICIDE

Crops	Maximum individual dose (mL product per ha)	Maximum total dose per crop (mL product per ha)	Latest time of application
Forage and grain maize, sweetcorn	125 mL/ha	250 mL/ha	(GS73 to GS87) 7 days before harvest
Broccoli, cauliflower, head cabbage, Savoy cabbage	125 mL/ha	250 mL/ha	1 day before harvest
Beetroot, carrot, celeriac, horseradish, Jerusalem artichoke, parsnip, radish, root parsley, turnip, salsify, swede	175 mL/ha	350 mL/ha	21 days before harvest

Method of application: Tractor mounted sprayer/ trailed sprayer.

Other specific restrictions: The number of applications of OPTIL or other Group 28 insecticides is limited to a maximum of two per crop.

READ ALL PRECAUTIONS BEFORE USE.

Qualified minor uses*

Crops	Maximum individual dose (mL product per ha)	Maximum total dose per crop (mL product per ha)	Latest time of application
Potatoes	60 mL/ha	120 mL/ha	14 days before harvest
Apples, pears, plums	262.5 mL/ha	525 mL/ha	14 days before harvest
Grapes	210 mL/ha	210 mL/ha	30 days before harvest

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

Method of application: Tractor mounted sprayer/ trailed sprayer, orchard sprayer, knapsack/handheld sprayer.

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

The number of applications of OPTIL or other Group 28 insecticides is limited to a maximum of two per crop.

APPROVAL HOLDER AND MARKETING COMPANY:

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Production date / Batch number: see packaging

PROTECT FROM FROST

SHAKE WELL BEFORE USE



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PEEL BACK FOR DIRECTIONS FOR USE LEAFLET

SAFETY PRECAUTIONS

Environmental protection

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 protect aquatic organisms respect an unsprayed buffer zone of 10m to surface water bodies when applying to beetroot, carrots, celeriac, horseradish, Jerusalem artichoke, maize, parsnips, radish, root parsley, salsify, swede, sweetcorn and turnip.

To protect aquatic organisms respect an unsprayed buffer zone of 20m to surface water bodies when applying to apples, broccoli, cabbage, cauliflower, pears and plums.

Storage and disposal

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

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

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

For specific information see directions of use table.

OPTIL is a broad spectrum anthranilic diamide insecticide, containing chlorantraniliprole, used to control various caterpillars (Lepidoptera) and beetle larvae (Coleoptera). It is classified as a Group 28 insecticide by IRAC.

It is active by contact or ingestion. Chlorantraniliprole is a ryanodine receptor antagonist which interferes with normal muscular contraction resulting in paralysis (within a few hours) and death of the affected insect. Control may take 2-4 days.

INTEGRATED PEST MANAGEMENT AND RESISTANCE STRATEGY

OPTIL can be used in an Integrated Pest Management (IPM) programme, aimed at preventing economic pest damage, which includes biological, cultural and genetic practices. IPM principles and practices include detection methods, such as field scouting, correct target pest identification, population monitoring, rotation of insecticides with different modes of action (IRAC Group) and treating when target pest populations reach local threshold levels. Consult your crop advisor to determine your locally determined threshold levels for treating specific crop/pest or site systems in your area.

Repeated and exclusive use of OPTIL or other Group 28 insecticides may lead to the development of resistant insect populations. To maintain the longevity of OPTIL and other Group 28 insecticides for the benefit of growers an Integrated Resistance Management (IRM) strategy must be followed. OPTIL should be incorporated into IPM programmes which include cultural and biological control practices in association with IRAC guidelines.

If resistance to chlorantraniliprole develops in your area, then OPTIL, and similar products with a similar mode of action, may not provide adequate control. To reduce the risk of resistance occurring, alternate OPTIL with products which use a different mode of action to control the same insect pest.

Where permitted a maximum of 2 applications of OPTIL per crop is allowed.

To prevent or delay the onset of resistance to OPTIL and other Group 28 insecticides IRAC and CropLife International recommend the following:

Do not exclusively use OPTIL, or other Group 28 insecticides, to control the same pest throughout the season.

Avoid exposing consecutive generations of a pest to the same mode of action by using the "application window" approach which rotates products from different mode of action groups.

An "application window" is the period of residual activity that a single application or sequential applications of products from the same mode of action provide. It can also be defined as the duration of an insect generation or, if unknown, then use an approximate 30 day period. Rotate windows with treatments of OPTIL, and other Group 28 products, followed by windows of treatments with other effective products with different modes of action.

Multiple applications (no more than two recommended) of the same MoA insecticide are acceptable if they are used within the same application window.

The total exposure to OPTIL and all 'Group 28 products active windows' applied should not exceed 50% of the crop cycle (from seed/sprouting to harvest).

Use full recommended label rates to control the insect pests when applied alone or in tank-mixes.

For further information consult the IRAC website.

RESTRICTIONS

Do not apply to crops that are under stress from pest or disease attack, drought, waterlogging, cold, nutrient or lime deficiency or other causes reducing crop growth.

To protect bees and pollinating insects do not apply OPTIL to crops when in flower. Do not use when bees are actively foraging (i.e. apply in the early morning or late evening). Do not apply where other flowering plants are present.

CROP SPECIFIC INFORMATION

1. Forage and grain maize, sweetcorn.

For best results apply during egg laying until the very first eggs are hatching. Follow the timing recommendations, where locally available, for the ovilarvicide materials. No more than 2 applications per year are permitted. If additional applications are required, alternate the use of OPTIL with other suitable insecticides with the same target pest but a different mode of action.

Applications should be made in 300-800L water/ha using a boom sprayer.

Crops	Dose (mL product per ha)	Pest
Forage and grain maize, sweetcorn	125 mL/ha	European Corn Borer (<i>Ostrinia nubilalis</i>)

2. Broccoli, cauliflower, head cabbage, Savoy cabbage.

For best results OPTIL should be applied during the egg-laying until the very first eggs are hatching. Follow the timing recommendations, when locally available, for ovilarvicide materials. No more than 2 applications per year are permitted, depending on the pest pressure and the targeted level of plant protection. If additional applications are required, alternate the use of OPTIL with other suitable insecticides with the same target pest but with a different mode of action.

Applications should be made in 300-800L water/ha.

Crops	Dose (mL product per ha)	Pest
Broccoli, cauliflower, head cabbage, savoy cabbage	125 mL/ha	Lepidoptera species including: Cabbage moth (<i>Mamestra brassicae</i>), Small white (<i>Pieris rapae</i>), Cabbage leafroller (<i>Clepsis spectrana</i> , <i>Cyclamen tortrix</i>) Diamondback moth (<i>Plutella xylostella</i>), Garden pebble moth (<i>Evergestis forficalis</i>), Large white (<i>Pieris brassicae</i>),

3. Beetroot, carrot, celeriac, horseradish, Jerusalem artichoke, parsnip, radish, root parsley, salsify, swede and turnip.

For best results OPTIL should be applied during egg-laying (before the peak of adult flies), preferably against the second or third generation. No more than 2 applications per year are permitted and a minimum interval of 14 days must elapse between applications. If additional applications are required, alternate the use of OPTIL with other suitable insecticides with the same target pest but with a different mode of action.

Applications should be made in 300-800L water/ha (normal volume sprayers).

Crops	Dose (mL product per ha)	Pest
Beetroot, carrot, celeriac, horseradish, Jerusalem artichoke, parsnip, radish, root parsley, salsify, swede and turnip	175 mL/ha	Carrot fly (<i>Psila rosae</i>) - (moderate control)

MINOR USE QUALIFICATION

The commercial risk of using this product under these Qualified Minor Uses is borne entirely by the grower as there is limited evidence of crop safety and/or product efficacy available.

1. Potato.

For best results, apply OPTIL at egg hatch or at the first signs of crop damage. In severe infestations a follow up treatment may be applied after a 14 day interval. Use the highest rate when pest pressure is severe. Apply no more than 2 applications of OPTIL (or other Group 28 insecticides) per crop.

Applications should be made in 200-600L water/ha using a boom sprayer.

Crops	Dose (mL product per ha)	Pest
Potato	50-60 mL/ha	Colorado beetle (<i>Leptinotarsa decemlineata</i>)

2. Apple, pear and plum.

For best results apply OPTIL during egg laying at the ovicide timing, before egg-hatch and fruit penetrations occur. OPTIL should be applied in alternation with other suitable insecticides which control Codling/Plum moth utilising a different mode of action. No more than 2 applications of OPTIL per year are permitted. A minimum interval of 14 days must elapse between sequential applications.

Crops	Dose (mL product per ha)	Pest
Apple, pear, plum	175 mL/ha: for trees of 3.75m high in a single row system, 3.25m high in a 2 or 3 row system and 2.25m high in a 5 row system. Where tree height and /or canopy density is reduced, the dose (and water volume) needs to be adjusted in accordance with an appropriate dose adjustment scheme, for example PACE. However, do not use less than 150 mL/ha. Consult your specialise advisor for further information.	Codling moth, Plum moth (<i>Cydia</i> spp.)

3. Grapes.

For best protection of grape bunches apply during egg laying at the ovicide timing, before egg-hatch and fruit penetrations occur, preferably against the second generation. No more than 1 application per season is permitted. If additional sprays are required, apply OPTIL within spray programmes which include other suitable insecticides, against the same pest but with a different mode of action.

Applications should be made in 500-1200L water/ha.

Crops	Dose (mL product per ha)	Pest
Grapes	150-210 mL/ha	Grape berry moth (<i>Lobesia botrana</i>), Grape tortrix (<i>Argyrotaenia pulchellana</i>), Vine moth (<i>Eupoecilia ambiguella</i> , formerly <i>Clysia ambiguella</i>)

PREPARATION OF THE SPRAY SOLUTION AND APPLICATION

Before use ensure that all application equipment is clean and properly calibrated. Add a quarter of the required volume of clean water, start agitation and add the required quantity of OPTIL. Rinse any empty containers thoroughly by using an integrated pressure rinsing device or manually rinsing three times, add the washings to the tank and then fill the tank to the required volume whilst maintaining agitation. Continuous agitation must be maintained until spraying is complete.

All application equipment must be thoroughly cleaned immediately after application. Completely drain the spray equipment, thoroughly rinse the sprayer and flush hoses, boom and nozzles with clean water. Loosen and physically remove any visible deposits. Remove and clean nozzles, screens and strainers. Flush the entire system with clean water. Take all necessary precautions when cleaning equipment. Do not clean near wells or water sources. If using OPTIL in a tank-mix use the most rigorous cleaning procedure of OPTIL and the tank-mix partners.

COMPATIBILITY

If applying OPTIL in tank-mix with any other product, consult your supplier. When using in tank-mix always add OPTIL to the spray tank first. Ensure all mixture products are applied within their approved recommendations.

CONDITIONS OF SUPPLY

All goods supplied by the company are of good quality and we believe them to be fit for purpose. However, as we cannot exercise control over their storage, handling, mixing or use or the weather conditions before, during or after application, which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.