



## **CORAGEN®**

**PCS No. 03079**  
**MAPP 14930**

A suspension concentrate containing 200 g/l chlorantraniliprole for the control of caterpillars in apples and pears and Colorado beetle in potatoes (IRL only).

(UK only): The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work

### **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



(UK only): To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements

(UK only): **DO NOT ALLOW DIRECT SPRAY** from broadcast air-assisted sprayers to fall within 10 m of the top of the bank of a static or flowing waterbody, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

(UK only): This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

(UK only): **RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS.** See 'DIRECTIONS FOR USE'.

(Ireland only): To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

#### **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

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This label is compliant with the CPA Voluntary Initiative Guidance  
(UK only)

Contents: X litre (e mark)

**SAFETY INFORMATION**  
**CORAGEN®**  
 Insecticide containing 200 g/l chlorantraniliprole



**WARNING**

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

Collect spillage.  
 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

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 No 03079**  
**MAPP 14930**

**IMPORTANT INFORMATION**  
**FOR PROFESSIONAL USE ONLY**  
 For use only as an agricultural (IRL only)/horticultural professional insecticide

| Crops               | Max. single dose | Max. no of applications at max. single dose | Max total dose | Latest time of application |
|---------------------|------------------|---|----------------|----------------------------|
| Potatoes (IRL only) | 60 ml/ha         | 2 per crop                                  | 120 ml/ha      | 14 days before harvest     |
| Apples, pears       | 175 ml/ha        | 2 per year                                  | 350 ml/ha      | 14 days before harvest     |

**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**

**Method of application:**  
 Tractor mounted sprayer / knapsack

## 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.

### RESTRICTIONS

- CORAGEN must not be applied to any crop suffering from stress, for example, as a result of drought, waterlogging, low temperatures, disease attack, nutrient or lime deficiency or other factors reducing crop growth
- (IRL only): Good agricultural practice suggests that CORAGEN should be used when bees are less active (i.e. early morning or late evening).
- (UK only): To protect bees and pollinating insects do not apply 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.
- (UK only): The best available application technique, which minimises off-target drift should be used to reduce effects on non-target insects or other arthropods
- (UK only): Consult processor when the product is to be applied to crops grown for processing.

## **INSECT CONTROL**

CORAGEN is an anthranilic insecticide used for the control of Codling moth (*Cydia pomonella*) in apples and pears and Colorado beetle (*Leptinotarsa decemlineata*) in potatoes (IRL only). Activity is by ingestion and contact. Paralysis of the pest occurs within a few hours of exposure and results in cessation of movement and feeding. Final control can take 2-4 days.

CORAGEN may be used as part of an Integrated Pest Management (IPM) program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds. Consult your crop adviser to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

### **Insect resistance**

When insecticides with the same mode of action are used repeatedly over several years to control the same species in the same field, naturally-occurring resistant strains may survive a correctly applied treatment, propagate, and become dominant in that field. An insect can be resistant if the product applied under recommended conditions fails to control a sensitive species and a suitable validation assay confirms the lack of activity. Some insects (e.g. *Cydia pomonella*) have developed resistance to commercially available products. When resistance occurs, recommended rates fail to suppress the pest population below economic thresholds.

It is important that the grower considers the following:

- Alternate the use of CORAGEN with products with a different mode of action than chlorantraniliprole.
- Monitor insect populations and apply CORAGEN when locally determined economic thresholds are reached. More than one application may be necessary for any infestation, but no more than two applications of CORAGEN should be applied.
- Follow the directions for use as mentioned on this label regarding optimum dose, timing and interval between treatments.

## **CROPS**

Coragen may be applied to the following crops:

### **Potato (IRL only)**

**Pests controlled:** Colorado beetle (*Leptinotarsa decemlineata*)  
**Dose:** 50 – 60 ml/ha in 200-600 l/ha using boom sprayer.  
**Timing:** Treat at egg-hatch or as soon as the first signs of crop damage. In severe infestations a follow-up treatment may be applied after 14 days. The higher rate should also be used when pest pressure is severe. Apply no more than 2 applications per crop.

### **Apples and pears**

**Pests controlled:** Codling moth (*Cydia pomonella*)

**Dose:** A rate of 175 ml/ha should be used for trees of 3 – 3.5m height at full canopy density. Apply in 200 -1500 l/ha of water to ensure good crop cover. Where tree height and/or canopy density is reduced, the dose (and water volume) should be adjusted in accordance with an appropriate dose adjustment scheme, for example PACE. However, if reducing the dose according to tree height or canopy density, do not use less than 150 ml/ha (IRL only). Consult your specialist advisor for further information. Further information on the PACE scheme is available from HDC, or see the HDC leaflet available also at [http://www.pesticides.gov.uk/uploadedfiles/HDC\\_TreeFruitDosingleaflet.pdf](http://www.pesticides.gov.uk/uploadedfiles/HDC_TreeFruitDosingleaflet.pdf)

**Timing:** For best fruit protection apply during egg-laying at the 'ovicide' timing, before egg-hatch and fruit penetrations occur. CORAGEN should be applied in alternation with other insecticides with a different mode of action. Apply no more than two applications of CORAGEN per year, at a minimum interval of 14 days in case of sequential applications.

### **MIXING**

Before using CORAGEN, make sure that the spraying equipment is clean. CORAGEN mixes easily with water, but the following mixing procedure should be followed: Quarter fill the spray tank with clean water, start the agitation and add the required quantity of CORAGEN directly to the tank. Continue agitation while topping up the tank and while spraying.

### **COMPATIBILITY (IRL only)**

Do not use any product in a tank-mix if the mixture cannot be applied within the recommendations for all the separate ingredients. When using in a tank-mix, always add CORAGEN to the spray tank first. Consult your supplier before applying in tank-mix with any other product.

### **SPRAY TANK CLEAN-OUT**

Immediately after application, completely drain spray equipment. Thoroughly rinse sprayer and flush the hoses, boom and nozzles with clean water. Loosen and physically remove visible deposits. Remove and clean nozzles, screens and strainers. Flush the entire system with clean water. Take all necessary safety precautions when cleaning equipment. Do not clean near wells or water sources. Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

### **NOTICE TO BUYER**

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over

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their mixing or use, 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 for any damage or injury whatsoever arising from their storage, handling, application or use.

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Insert QR code and wording  
[To access the Safety Data Sheet for this product scan the code]