



CORAGEN®

PCS No. 05295

A suspension concentrate, containing 200 g/L chlorantraniliprole for use against chewing insects in agricultural and horticultural crops.

SAFETY PRECAUTIONS

ENVIRONMENTAL PROTECTION

Do not contaminate surface waters or ditches with chemical or used container.

To protect aquatic organisms, respect an unsprayed buffer zone of 10m 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 20m to surface water bodies when applying to cabbage, broccoli and cauliflower, apples, pears and plums.

STORAGE AND DISPOSAL

Keep out of reach of children

Keep away from food, drink and animal feeding stuffs

This material and its container must be disposed of in a safe way

KEEP IN ORIGINAL CONTAINER tightly closed and in a safe place

Du Pont (UK) Limited,
Crop Protection Products
4th Floor, Kings Court
London Road
Stevenage
Herts. SG1 2NG, England

Tel: +44 (0)1438 734450 or enquiry.agproducts@dupont.com

Emergency 24-hour contact: Telephone (Ireland) 01 901 4670 and (UK) 0870 820 0418

Ireland - National Poisons Centre (01) 809 2166 or 01 837 9964

FOR PROFESSIONAL USE ONLY

Protect from Frost

Shake well before use

Contents: XXXX litres (e mark)

RISK AND SAFETY INFORMATION

CORAGEN

Contains 200 g/l chlorantraniliprole



Warning

Very toxic to aquatic life

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

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 No 05295

IMPORTANT INFORMATION			
For use only as an agricultural/horticultural 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*			
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 Coragen or 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			

DIRECTIONS FOR USE

RESTRICTIONS

- CORAGEN must not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Good agricultural practice suggests that CORAGEN should be used when bees are less active (i.e. early morning or late evening).

INSECT CONTROL

CORAGEN is a Group 28 anthranilic insecticide used for the control of larvae of various Lepidopteran (caterpillar) and Coleopteran (beetle) species. 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

Repeated and exclusive use of CORAGEN or other Insecticides may lead to the development of insect resistant populations. Maintaining the longevity of CORAGEN and all Group 28 products as an effective pest control tool for growers is critical, thus an insecticide resistance management (IRM) strategy should be established in the area of use. CORAGEN should be incorporated into Integrated Pest Management programs that include cultural and biological control practices in association with the IRM guidelines detailed below. Consult your local agricultural authorities or company representative for more details.

If resistance to this product develops in your area, this product and other products with a similar mode of action may not provide adequate control. Development of resistance can be avoided or delayed by alternating products having different modes of action.

The number of applications of CORAGEN is limited to 2 per season.

The following practices are recommended to prevent or delay the development of insecticide resistance to CORAGEN and to Group 28 insecticides:

- Apply CORAGEN or other Group 28 insecticides using a “window” approach to avoid exposure of consecutive insect pest generations to the same mode of action.
- A treatment “window” is defined as the period of residual activity provided by single, multiple, or sequence of product applications with the same mode of action, in an approximate 30 day period.
- Two successive applications of CORAGEN are acceptable if they are used to treat a single insect generation, but are not acceptable to control two consecutive pest generations.

- Following a “window” of CORAGEN™ or other Group 28 insecticide, rotate to a “window” of applications of effective insecticides with a different mode of action.
- The total exposure period of all “Group 28-active windows” applied throughout the crop cycle (from sprouting/seedling to harvest) should not exceed 50% of the crop cycle.
- Avoid using less than labelled rates when applied alone or in tank mixtures.

For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irc-online.org>

INTEGRATED PEST MANAGEMENT

This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field monitoring 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 local extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

CROPS

Coragen may be applied to the following crops:

Crops	Pests	Dose	Timing
Cauliflower, Broccoli, Head cabbage, Savoy cabbage	<i>Lepidoptera species</i> including <i>Plutella xylostella</i> , <i>Mamestra brassicae</i> , <i>Pieris rapae</i> , <i>Pieris brassicae</i> , <i>Evergestis forficalis</i> , <i>Cleptis spectrana</i>	125 ml/ha in 300-800 L water/ha.	For best plant protection, apply during the egg-laying until the very first eggs are hatching. When locally available, follow the timing recommendations for the ovicidal materials. Make no more than two applications per year, according to pest pressure and to the targeted level of plant protection. Should additional sprays be needed, alternate use of CORAGEN with other suitable insecticides with a different mode of action
Root parsley, parsnip, beetroot, horseradish, Jerusalem artichoke, radish, salsify, swede, turnip, celeriac and carrot	Carrot root fly (<i>Psila rosa</i>). Coragen offers moderate control of carrot root fly on carrots	175 ml/ha	Apply during the egg-laying (before the flight peak of adult flies) preferable against the 2 nd or the 3 rd generation. Apply in 300-800 L water/ha (normal volume sprayers). Make no more than two applications per year at 14-day intervals. Should additional sprays be needed, alternate use of CORAGEN with other suitable insecticides with a different mode of action.
Maize and	European Corn Borer	125 ml/ha in 300-	Apply during the egg-laying until the

sweetcorn	<i>(Ostrinia nubilalis)</i>	800 l/ha using boom sprayer	very first eggs are hatching. When locally available, follow the timing recommendations for the ovi-larvicide materials. Make no more than two applications per year. Should additional sprays be needed, alternate use of CORAGEN with other suitable insecticides 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*	Colorado beetle (<i>Leptinotarsa decemlineata</i>)	50 – 60 ml/ha in 200-600 l/ha using boom sprayer.	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.
Apple*, pear* and plum*	Codling moth (<i>Cydia</i> spp.)	A rate of 175 ml/ha should be used for trees of 3.75m height in a single row system, 3.25 m height in a 2 or 3 row system and 2.25m in a 5 row system. 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. Consult your specialist advisor for further information.	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.
Grapes*	Grape berry moth <i>Lobesia botrana</i> ,	150 – 210 ml/ha in 500-1200 l/ha	For best bunch protection apply during egg-laying at ovicide timing,

	Clysia ambiguella, Argyrotaenia pulchellana		before egg-hatch and penetrations occur. Apply preferably against the 2nd generation. Make no more than one application per season. When a program of two or more insecticide applications is needed to achieve good control, CORAGEN should be applied within spray programmes including other suitable insecticides with a different mode of action, at effective rates.
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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

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 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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Safety Data Sheet

[insert QR code and wording]

To view the Safety Data Sheet for this product scan the code; visit

www.cropprotection.dupont.co.uk or alternatively contact your supplier