



The miracles of science®

DuPont™ Coragen®

insecticide

Technical Information

Active Ingredient:

200 g/L CHLORANTRANILIPROLE in the form of a suspension concentrate.

Pack Sizes:

250 mL
1 L

GROUP

28

INSECTICIDE

ECOTOXIC

FOR THE CONTROL OF CERTAIN SPECIES OF INSECT PESTS IN A RANGE OF VEGETABLE CROPS.

Registered pursuant to the ACVM Act 1997 No. P7832

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996 Code HSR007969

READ LABEL BEFORE MIXING AND APPLYING

HAZARD CLASSIFICATION

9.1A

APPROVED HANDLER

This product must be under the control of an approved handler during use.

Use of this product in any manner contrary to this label may be an offence under the HSNO Act.

ECOTOXIC

Very toxic to aquatic organisms. **DO NOT** apply into/onto water. Avoid contamination of any water supply with product or empty container.

DO NOT allow spray drift outside the target area.

PRECAUTIONS

Keep out of reach of children. Avoid breathing spray mist. **DO NOT** eat, drink or smoke while using.

Store in original container, tightly closed and under lock and key. **DO NOT** store with Class 1, 2, 3.2, 4 or 5 substances or feed, seeds or foodstuffs. Stores containing more than 100 L of this product require secondary containment and are subject to signage.

When stored appropriately, this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

DISPOSAL

Container disposal: Ensure container is empty. Triple rinse, and add rinsate to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, burn if circumstances, especially wind direction permit, otherwise bury in an approved landfill. **DO NOT** reuse container. Dispose of this product only by using according to this label. Always follow local authority requirements.

FIRST AID

If swallowed: **DO NOT** induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if feeling unwell. If spilt on skin, remove contaminated clothing and wash affected areas of skin. **DO NOT SCRUB THE SKIN**. If concentrate is splashed in eyes, flush with running water for at least 15 minutes.

SPILLAGE

Wear appropriate protective clothing. Prevent liquid from entering sewers or bodies of water. Absorb spills in earth or sand and sweep up. Dispose of waste material at an approved landfill.

GENERAL INSTRUCTIONS

DuPont™ Coragen® insecticide has been specifically designed for use in Integrated Pest Management (IPM) programmes. Coragen® is an anthranilic diamide insecticide in the form of a suspension

concentrate. Coragen® is particularly active on Lepidopteran insect pests, primarily as a larvicide. Before application monitor insect populations to determine whether or not there is a need for application of Coragen® based on locally determined economic

thresholds. More than one treatment of Coragen® may be required to control a population of pests.

DuPont™ Coragen® insecticide can be used in Integrated Pest Management (IPM) programmes. Harmful to some beneficial insects – particularly some foliage dwelling predators which may be used in Integrated Pest Management.

BEE SAFETY

Activity of honey bees will not be disrupted provided DuPont™ Coragen® insecticide is applied in non-foraging periods and once the spray has dried.

INSECTICIDE RESISTANCE WARNING

Some naturally occurring insect biotypes resistant to Coragen® and similar Mode of action insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Coragen® and other similar Mode of action insecticides are used repeatedly. The effectiveness of Coragen® on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use DuPont accepts no liability for any losses that may result from the failure of Coragen® to control resistant insects.

Coragen® may be subject to specific resistance management strategies. To help prevent the development of resistance to Coragen®, use Coragen® in accordance with the current Insecticide Resistance Management (IRM) strategy for your region. For further information contact your farm chemical supplier, consultant, or local DuPont Representative.

APPLICATION

Apply using clean, well maintained and accurately calibrated ground-based spray equipment (only). Set the boom low and use coarser nozzles and lower pressures to avoid spray drift.

The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in the substance leaching into ground water.

Due to the persistent nature of chlorantraniliprole in soil, this product is expected to accumulate over successive seasons following repeated use.

MIXING

Fill spray tank to ¼ to ½ full of water. Measure the amount of Coragen® required for the area to be sprayed. Add Coragen® directly to the spray tank with the agitation engaged. Mix thoroughly to disperse the insecticide. Once dispersed, the material must be kept in suspension at all times by continuous agitation. Use mechanical or hydraulic means, **DO NOT** use air agitation, premix or slurry.

If spray solution is left standing, ensure thorough re-agitation of the spray mix until fully resuspended. **DO NOT** allow spray mix to sit overnight, as resuspension may be difficult.

SURFACTANT/WETTING AGENT

For broccoli, Brussels sprout, cabbage, cauliflower, use a non-ionic surfactant/wetting agent at the highest rate recommended for hard to wet crops. For lettuce, spinach, silver beet, Asian vegetables and potato use a non-ionic surfactant/wetting agent at the rate recommended for easy to wet crops.

DO NOT add a non-ionic surfactant/wetting agent if:

- mixing with another product which already contains a surfactant and/or the product label advises not to add a surfactant.
- mixing with a liquid fertiliser

Compatibility

Experience to date suggests Coragen® is compatible with other commonly used fungicides (such as mancozeb), insecticides and foliar fertilisers (such as Calcium chloride, Calcium nitrate). Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of the desired tank mix and observe possible adverse changes (settling out, flocculation etc).

Spray Equipment Cleanout

Immediately following application, thoroughly clean all spray equipment to reduce the risk of hardened deposits forming which might become difficult to remove. Drain spray equipment, thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. **DO NOT** clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

RECORD KEEPING

Records of use, as described in The New Zealand Management of Agrichemicals (NZS8049) must be kept.

NOTICE TO BUYER

DuPont warrants that this product conforms to the chemical description on the label thereof and if reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use of application, all of which are beyond the control of DuPont. To the extent permitted at law, DuPont shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer.

TO THE EXTENT PERMITTED AT LAW, DUPONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

This product should not be used off label.

DIRECTIONS FOR USE

It is an offence to use this product on animals.

DO NOT apply if rainfall is expected within 2 hours of application.

DO NOT use on container or hydroponic grown crops.

EXPORT STATEMENT: Import tolerances for produce treated with DuPont™ Coragen® insecticide may be pending in some countries. Consult with your exporter or DuPont before applying Coragen® to export crops.

CROP	PEST	RATE/HA	WHP	CRITICAL COMMENTS
Vegetable brassicas including; Broccoli, Brussels sprout, Cabbage, Cauliflower	Cabbage white butterfly (<i>Pieris rapae</i>) Tropical army worm (<i>Spodoptera litura</i>)	100 mL + non-ionic surfactant (Refer to Surfactant/Wetting agent section) DO NOT apply more than 300 mL/ha per season.	7 days	All crops - Regularly scout crops to monitor for eggs and larvae. Target sprays against eggs and newly hatched larvae before they become entrenched. Apply as egg and larvae reach threshold numbers. A maximum of three (3) applications are to be applied to any one crop. No more than two (2) consecutive sprays per crop, with a minimum spray interval of 7 days. Further treatments should be made with alternative mode of action insecticides. Restrict the use of Coragen® to the allocated Insect Resistance Management strategy window for your district. Use enough water to ensure thorough coverage of the crop. Adjust water volumes to crop stage (200 – 1000 L/ha).
Lettuce (leaf & closed head varieties)	Tomato fruit worm (Heloithis) (<i>Helicoverpa armigera</i>)		3 days	
Leafy vegetables including - silverbeet, spinach and Asian vegetables including Pak choy and Wong bok	Diamondback moth (<i>Plutella xylostella</i>) Soybean looper (<i>Thysanoplusia orichalcea</i>)			
Potato	Potato tuber moth (<i>Phthorimaea operculella</i>)		14 days	

WITHHOLDING PERIODS

HARVEST

Broccoli, Brussels sprout, Cabbage, Cauliflower: **DO NOT** harvest for 7 days after application.

Lettuce, silverbeet, spinach and Asian vegetables: **DO NOT** harvest for 3 days after application.

Potatoes: **DO NOT** harvest for 14 days after application.

GRAZING

DO NOT graze or feed treated produce to stock.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards

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