

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



syngenta®

ACTIVE CONSTITUENTS: 200 g/L THIAMETHOXAM
100 g/L CHLORANTRANILIPROLE

GROUP 4A | 28 INSECTICIDE

*For the control of various insect pests in Brassicas
and Fruiting and Leafy Vegetables as per the
Directions for Use*

Syngenta Crop Protection Pty Limited
Level 1, 2-4 Lyonpark Road, Macquarie Park, NSW 2113

In a transport emergency dial 000, Police or Fire Brigade
For specialist advice in an emergency only, call 1800 033 111 (24
hours)

APVMA Approval No: 63936/1, 5 - 10, 20 - 100/0710

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DIRECTIONS FOR USE

Restraints

DO NOT apply more than 1 application per crop

DO NOT transplant seedlings treated by seedling drench into hydroponic production systems

Crop	Pest	Rate	Critical Comments
Brassicas Including Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Brassica Leafy Vegetables	Diamondback Moth (<i>Plutella xylostella</i>), Cabbage White Butterfly (<i>Pieris rapae</i>), Corn Earworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Cabbage Centre Grub (<i>Hellula hydralis</i>), Cabbage Cluster Caterpillar (<i>Crociodomia pavonana</i>), Cluster Caterpillar (<i>Spodoptera litura</i>), Soybean Looper (<i>Thysanoplusia orichalcea</i>), Cabbage Aphid (<i>Brevicoryne brassicae</i>), Green Peach Aphid (<i>Myzus persicae</i>), Silverleaf Whitefly (<i>Bemisia tabaci</i>), Greenhouse Whitefly (<i>Trialeurodes vaporariorum</i>), Green Vegetable Bug (<i>Nezara viridula</i>), Western Flower Thrips (<i>Frankliniella occidentalis</i>), Onion Thrips (<i>Thrips tabaci</i>).	22 to 30 mL per 1000 seedlings	<p>Rates towards the lower end of the range are sufficient when using the planting hole drench application method.</p> <p>Rates towards the lower end of the range are sufficient when treating crops and varieties with growing seasons of less than 7 weeks duration.</p> <p>Use rates toward the upper end of the range when season conditions favour rapid crop development or high pest pressure is anticipated.</p> <p>Seedling tray application Apply a single application as a slurry with water in a total volume of 2.5 L per 1000 seedlings. Some adjustment in water volume may be required depending on seedling cell size and moisture content. Final volume must be sufficient to wash product into the seedling root ball but not cause runoff or leaching from seedling cells. Failure to wash product into the root ball may result in reduced control. Where spray drift cannot be captured, calibrated shrouded sprayers or other methods to minimise spray drift must be used to deliver a uniform distribution to each transplant cell. Excess spray includes applied spray which misses the target, runs off or inadvertently runs through the cells. Any such excess must be captured and should be filtered and returned to the spray tank. DO NOT use watering cans, sprinklers or other imprecise methods of application. Losses from spray drift or through runoff can be minimised by ensuring there are no gaps between the seedling trays during application. Application should occur immediately before transplanting to a maximum of 24 hours before seedling dispatch. Some seedling damage may occur post application but symptoms are generally transient and will not affect crop vigour. Seedlings should be transplanted within 48 hours of application DO NOT apply the seedling drench within 48 hours of heavy rain being forecast, or irrigate to the point of runoff for 48 hours after drenching. Watering of seedling trays after application may wash product from cells. If watering is</p>
Fruiting Vegetables (Excluding Cucurbits) Including Tomatoes, Capsicum, Eggplant	Corn Earworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Potato Moth (<i>Phthorimaea operculella</i>), Cluster Caterpillar (<i>Spodoptera litura</i>), Green Peach Aphid (<i>Myzus persicae</i>), Silverleaf Whitefly (<i>Bemisia tabaci</i>), Greenhouse Whitefly (<i>Trialeurodes vaporariorum</i>), Western Flower Thrips (<i>Frankliniella occidentalis</i>), Tomato Thrips (<i>Frankliniella schultzei</i>)	37 to 50 mL per 1000 seedlings	<p>Application should occur immediately before transplanting to a maximum of 24 hours before seedling dispatch. Some seedling damage may occur post application but symptoms are generally transient and will not affect crop vigour. Seedlings should be transplanted within 48 hours of application DO NOT apply the seedling drench within 48 hours of heavy rain being forecast, or irrigate to the point of runoff for 48 hours after drenching. Watering of seedling trays after application may wash product from cells. If watering is</p>

Leafy Vegetables Including Lettuce, Endive, Silverbeet, Spinach	Corn Earworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Cluster Caterpillar (<i>Spodoptera litura</i>), Looper (<i>Chrysodeixis</i> spp.), Lettuce Aphid (<i>Nasonovia ribis-nigri</i>), Green Peach Aphid (<i>Myzus persicae</i>), Brown Sowthistle Aphid (<i>Uroleucon sonchi</i>), Silverleaf Whitefly (<i>Bemisia tabaci</i>), Western Flower Thrips (<i>Frankliniella occidentalis</i>), Vegetable Leafhopper (<i>Austroasca viridigrisea</i>), Lucerne Leafroller (<i>Merophyas divulsana</i>)	15 to 30 mL per 1000 seedlings	required between application and transplanting, it should be done so sparingly, only as required. DO NOT allow run through from the cells. Planting hole drench application Apply directly to the planting hole at transplanting. Apply in a minimum of 50 mL of water per plant.
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NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIODS

Brassicas:

DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION

Brassica Leafy Vegetables, Leafy Vegetables: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION

Fruiting Vegetables:

NOT REQUIRED WHEN USED AS DIRECTED

EXPORT TRADE ADVICE – TREATED CROPS: Treated crop commodities destined for export may require extra time being allowed between application and harvest, to be accepted in some export markets. Before you use this product, you are advised to contact Syngenta Crop Protection and/or your industry body about any potential trade issues and their management.

GENERAL INSTRUCTIONS

DURIVO INSECTICIDE is a broad spectrum, systemic insecticide controlling key lepidopteron, sucking and chewing insect pests in a range of vegetable crops. When applied as a seedling drench prior to transplanting, DURIVO is readily taken up by the roots of seedling transplants and is rapidly translocated throughout the plant to provide residual insect control.

DURIVO is applied as a seedling drench and controls insects that feed on plant parts or fluids. It should have minimal impact on beneficial arthropods and therefore its use is compatible with integrated pest management programs.

Mixing

Add the required amount of DURIVO to clean water in half-filled spray tank with the agitator or by-pass in operation. Maintain agitation while filling tank with remainder of water. Agitate whilst spraying.

Application

DURIVO must be applied in a manner which allows the insecticide to be absorbed by plant roots. Sufficient water volumes to ensure uniform application and incorporation into seedling root zones are required.

Seedling Tray Application

DURIVO should be applied to the seedling tray prior to transplanting as a drench through dedicated nursery spray equipment such as a calibrated hydraulic boom.

Apply a single application as a slurry with water in a total volume of 2.5 L per 1000 seedlings. Some adjustment in water volume may be required depending on seedling cell size and moisture content. Final volume must be sufficient to wash product into the seedling root ball but not cause runoff or leaching from seedling cells. Failure to wash product into the root ball may result in reduced control.

Application should occur immediately before transplanting to a maximum of 24 hours before seedling dispatch. Some seedling damage may occur post application but symptoms are generally transient and will not affect crop vigour. Seedlings should be transplanted within 48 hours of application

Planting Hole Drench Application

DURIVO should be applied with water in a minimum total volume of 50 mL per seedling directly at the base of transplanted seedlings or into the planting hole immediately before transplanting. Actual total volume will vary depending on equipment used, pre-existing soil moisture levels and soil type but should be to ensure uniform application and distribution.

With applications made after transplanting DURIVO should be incorporated to seedling root depth using sufficient irrigation within 24 hours.

Compatibility

As formulations of other manufacturer's products are beyond the control of Syngenta Crop Protection, and water quality varies with location, all mixtures should be tested prior to mixing or using commercial quantities.

Insecticide Resistance Warning

GROUP	4A	28	INSECTICIDE
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For insecticide resistance management DURIVO INSECTICIDE is a Group 4A and Group 28 insecticide. Some naturally occurring insect biotypes resistant to DURIVO and other Group 4A and/or Group 28 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if DURIVO or other Group 4A and/or Group 28 insecticides are used repeatedly. The effectiveness of DURIVO on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Syngenta Crop Protection accepts no liability for any losses that may result from failure of DURIVO to control resistant insects. DURIVO may be subject to specific resistance management strategies. For further information contact your supplier, Syngenta Crop Protection representative or local agricultural department agronomist.

Resistance Management

DURIVO is a Group 4A/Group 28 insecticide and should be applied in accordance with CropLife Insecticide Resistance Management guidelines.

In addition DURIVO should, wherever possible, be incorporated into an Integrated Pest Management (IPM) program that includes cultural and biological control practices in association with the following IRM guidelines:

- DO NOT make more than one application of DURIVO per crop
- Following the use of DURIVO rotate to alternative mode of action (MoA) insecticide class(es) for a period covering at least one generation of the target pest. For many pests this will require a minimum of 2 applications of alternate MoA insecticides
- The total exposure period for all Group 28 insecticides applied through the crop cycle (from seedling to harvest) should not exceed 50% of the crop cycle
- DO NOT apply any further applications of Group 4A insecticides during the crop cycle following the use of DURIVO

PRECAUTIONS

DO NOT apply as a seedling tray application using equipment carried on the back of the user.

Rehandling: DO NOT handle treated seedlings until the spray has dried unless wearing cotton overalls buttoned to neck and wrist (or equivalent clothing) and chemical resistant gloves.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DANGEROUS TO AQUATIC LIFE. DO NOT contaminate dams, waterways or drains with the chemical or used containers. DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray drift on adjacent areas, particularly wetlands, waterbodies or watercourses.

Dangerous to bees and will kill bees foraging in the treated seedlings, and residues may remain toxic to bees for several days after application.

STORAGE AND DISPOSAL (20 – 100 L pack size range only)

Store in the closed, original container in a cool, well ventilated area out of direct sunlight.

Refillable Containers

Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

Other Containers

Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty containers or product.

STORAGE AND DISPOSAL (1 L and 5 - 10 L pack size only)

Store in the closed, original container in a cool, well ventilated area out of direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty containers or product.

SAFETY DIRECTIONS

Will irritate eyes. Avoid contact with eyes. When opening the container, preparing and using the product wear:

- cotton overalls buttoned to neck and wrist (or equivalent clothing)
- gauntlet-length chemical resistant gloves

Wash hands after use. After each day's use wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone 131 126.

MATERIAL SAFETY DATA SHEET

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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