



Australian Government
**Australian Pesticides and
Veterinary Medicines Authority**

**PERMIT TO ALLOW EMERGENCY USE OF REGISTERED AGVET CHEMICAL
PRODUCTS**

**FOR CONTROL OF FALL ARMYWORM IN VARIOUS NURSERY STOCK (NON-
FOOD) – SEEDLINGS, TUBES & PLUGS, POTTED COLOUR, TREES AND SHRUBS,
FOLIAGE PLANTS, PALMS, GRASSES, FRUITING PLANTS (NON-BEARING), CUT
FLOWERS AND ORNAMENTALS**

PERMIT NUMBER – PER89330

This permit is issued to the Permit Holder in response to an application granted by the APVMA under section 112 of the Agvet Codes of the jurisdictions set out below. This permit allows a person, as stipulated below, to use the product in the manner specified in this permit in the designated jurisdictions. This permit also allows the Permit Holder and any person stipulated below to claim that the product can be used in the manner specified in this permit.

THIS PERMIT IS IN FORCE FROM 1 JUNE 2020 TO 30 JUNE 2022

Permit Holder:

GREENLIFE INDUSTRY AUSTRALIA
c/o AGAWARE CONSULTING PTY LTD
21 Rosella Avenue
STRATHFIELDSAYE VIC 3551

Persons who can use the product under this permit:

Persons generally.

CONDITIONS OF USE

Products to be used:

Acephate

LANCER 750 DF INSECTICIDE [APVMA No. 50892]

Plus other registered products

Containing: 750 g/kg acephate as the only active constituent.

ORTHENE XTRA INSECTICIDE [APVMA No. 50469]

Plus other registered products

Containing: 970 g/kg acephate as the only active constituent.

Acetamiprid & Novaluron

CORMORAN INSECTICIDE [APVMA No. 70152]

Plus other registered products

Containing: 80 g/L acetamiprid and 100 g/L novaluron as the only active constituent.

Alpha-cypermethrin

DOMINEX DUO INSECTICIDE [APVMA No. 53487]

Plus other registered products

Containing: 100 g/L alpha-cypermethrin as their only active constituent.

CONQUEST ALPHA FORTE 250 SC INSECTICIDE [APVMA No. 65245]

Plus other registered products

Containing: 250 g/L alpha-cypermethrin as their only active constituent.

Azadirachtin

AZAMAX INSECTICIDE [APVMA No. 61980]

Plus other REGISTERED PRODUCTS

Containing: 11.82 g/L AZADIRACHTIN as the only active constituent.

Chlorantraniliprole

CORAGEN INSECTICIDE [APVMA No. 61519]

Plus other registered products

Containing: 200 g/L chlorantraniliprole as its only active constituent.

ACELEPRYN GR TURF INSECTICIDE [APVMA No. 85185]

Plus other REGISTERED PRODUCTS

Containing: 2 g/kg chlorantraniliprole as its only active constituent.

Chlorantraniliprole & Thiamethoxam

DURIVO INSECTICIDE [APVMA No. 63936]

Plus other registered products

Containing: 100 g/L chlorantraniliprole and 200 g/L thiamethoxam as their only active constituent.

SPINNER TURF INSECTICIDE [APVMA No. 66637]

Plus other registered products

Containing: 200 g/kg cyantraniliprole and 200 g/kg thiamethoxam as the only active constituents.

Emamectin benzoate

PROCLAIM INSECTICIDE [APVMA No. 50919]

Plus other registered products

Containing: 44 g/kg emamectin present as emamectin benzoate as their only active constituent.

Indoxacarb

AVATAR INSECTICIDE [APVMA No. 52546]

Plus other registered products

Containing: 300 g/kg indoxacarb as its only active constituent.

PROVAUNT TURF INSECTICIDE [APVMA No. 85434]

Plus other REGISTERED PRODUCTS

Containing: 200 g/kg indoxacarb as its only active constituent.

Lambda-cyhalothrin

KARATE ZEON INSECTICIDE [APVMA No. 51422]

Plus other REGISTERED PRODUCTS

Containing 250 g/L lambda-cyhalothrin as its only constituent.

Methomyl

LANNATE-L INSECTICIDE [APVMA No. 47336]

Plus other REGISTERED PRODUCTS

Containing: 225 g/L METHOMYL as the only active constituent.

Methoxyfenozide

PRODIGY INSECTICIDE [APVMA No. 61605]

Plus other REGISTERED PRODUCTS

Containing: 240 g/L METHOXYFENOZIDE as their only active constituent.

Pyrethrins

PYGANIC ORGANIC INSECTICIDE [APVMA No. 59684]

Containing: 13 g/L pyrethrins as the only active constituent.

RESTRAINTS:

DO NOT use on vegetable and herb seedlings in a production nursery system.

DO NOT use on fruit trees that will bear fruit within 12 months of treatment.

Directions for Use:

Situation	Pest	Active Ingredient and Product	Rate (product)
NURSERY STOCK (NON-FOOD) – SEEDLINGS, TUBES & PLUGS, POTTED COLOUR, TREES AND SHRUBS, FOLIAGE PLANTS, PALMS, GRASSES, FRUITING PLANTS (NON-BEARING), CUT FLOWERS AND ORNAMENTALS	Fall Armyworm (<i>Spodoptera frugiperda</i>)	ACEPHATE <i>Lancer 750 DF Insecticide</i> (750 g ai/kg) <i>Orthene Xtra Insecticide</i> (970 g ai/kg)	130 g/100 L or 1.3 kg/ha 100 g/100 L or 1 kg/ha
		ACETAMIPRID & NOVALURON <i>Cormoran Insecticide</i> (80 g ai/L acetamiprid and 100 g ai/L novaluron)	70 mL/100 L
		ALPHA-CYPERMETHRIN <i>Dominex Duo Insecticide</i> (100 g ai/L) <i>Conquest Alpha Forte 250 Sc Insecticide</i> (250 g ai/L)	75 mL /ha 30 mL/ha
		AZADIRACHTIN <i>Azamax Insecticide</i> (11.82 g ai/L)	200 – 300 mL/100 L

Situation	Pest	Active Ingredient and Product	Rate (product)
		<p>CHLORANTRANILIPROLE</p> <p><i>Coragen Insecticide</i> (200 g ai/L)</p> <p><i>Acelepryn GR Turf Insecticide</i> (2 g ai/kg)</p>	<p>10 mL/ 100 L or 100 mL/ha</p> <p>75 g/10 m²</p>
		<p>CHLORANTRANILIPROLE & THIAMETHOXAM</p> <p><i>Durivo Insecticide</i> (100 g ai/L chlorantraniliprole and 200 g ai/L thiamethoxam)</p> <p><i>Spinner Turf Insecticide</i> (200 g ai/kg cyantraniliprole and 200 g ai/kg thiamethoxam)</p>	<p>15 – 50 mL/1000 seedlings</p> <p>50 g/100 L or 500 g/ha</p>
		<p>EMAMECTIN BENZOATE</p> <p><i>Proclaim Insecticide</i> (44 g ai/kg)</p>	<p>15 -25 g/100 L or 150 – 250 g/ha</p>
		<p>INDOXACARB</p> <p><i>Avatar Insecticide</i> (300 g ai/kg)</p> <p><i>Provaunt Turf Insecticide</i> (200 g ai/kg)</p>	<p>17 – 25 g/100 L or 170 – 250 g/ha</p> <p>37.5 g/100 L or 375 g/ha</p>
		<p>LAMBDA-CYHALOTHRIN</p> <p><i>Karate Zeon Insecticide</i> (250 g ai/L)</p>	<p>24 - 36 mL/ha</p>
		<p>METHOMYL</p> <p><i>Lannate-L Insecticide</i> (225 g ai/L)</p>	<p>100 – 200 mL/100 L</p>
		<p>METHOXYFENOZIDE</p> <p><i>Prodigy Insecticide</i> (240 g ai/L)</p>	<p>125 – 170 mL/100 L</p>
		<p>PYRETHRINS</p> <p><i>Pyganic Organic Insecticide</i> (13 g ai/L)</p>	<p>150 – 200 mL/100 L</p>

Critical Use Comments:

- Apply when pest require control for crop management purposes.
- Regularly scout crops to monitor for eggs and larvae. Treat when pests appear, targeting eggs at hatch or small larvae (prior to third instar stage) before the pest becomes entrenched.

- Apply no more than 2 applications of each product per crop or season, at minimum 7 day intervals unless specified below.
- Adhere to any Restraints on the product label.
- Refer to the product label for Re-entry Period, Safety Directions, First-aid Instructions and the addition or warning of the use of any wetter/adjuvant/surfactant.
- Refer to the Protections statements on the product label for conditions on protection of livestock, wildlife, the environment and non-target plants and animals.
- Refer to the Insecticide Resistance Warning statement on the product labels to prevent or delay the development of insecticide resistance.

Foliar applications

- Apply by a ground-based sprayer (hydraulic spray equipment or equivalent).
- Apply in sufficient water to ensure thorough coverage of all plant surfaces.

Soil/turf applications

- Incorporate in potting media prior to planting/transplanting of nursery stock. Reapply as new infestations occur.

ACEPHATE - LANCER 750 DF INSECTICIDE / ORTHENE XTRA INSECTICIDE

- Spray when infestation occurs and then at 14 day intervals.
- DO NOT spray if rainfall/overhead irrigation is expected before the spray is dry.
- DO NOT use on crops destined for export.
- DO NOT apply to carnations later than 6 days before picking.
- May cause foliage damage to certain shrubs and trees, ie crab appl, cotton wood, Lombardy poplar and American elm.
- DO NOT spray more than once every 28 days on carnations and chrysanthemums. Certain chrysanthemum varieties, ie Showoff, Iceberg, albatross, Bonnie Jean and Statesman have, on occasions, been damaged by products containing Acephate.
- Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.
- DO NOT apply in weather conditions, or from spraying equipment, which could be expected to cause spray to drift onto adjacent crops, croplands, pasture or livestock.
- When using the product in an enclosed/protected situation (e.g. glasshouse/greenhouse) where natural ventilation is restricted, also wear protective goggles and disposable face-mask (mist) that covers mouth and nose.
- DO NOT allow entry into, or perform agronomic practices in, treated areas until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC gloves. Clothing must be laundered after each day's use. For glass houses and other confined area, do not re-enter until spray droplets have dried and area has been thoroughly ventilated.

ACETAMIPRID & NOVALURON - CORMORAN INSECTICIDE

- Monitor crops and apply at first signs of infestation with a minimum 14 day retreatment.
- DO NOT apply if heavy rains or storms are forecast within 3 days.
- DO NOT apply during flowering. Moderately toxic to bees. Acetamiprid has systemic action. A risk is identified for bees foraging in the crop to be treated or in hives and non-target areas which are over-sprayed or reached by spraydrift. DO NOT apply while bees are actively foraging in or around treatment area. If there is a potential for managed hives to be affected by the spray or spray drift, notify beekeepers 48 hours before spraying to move hives to a safe location. Residues may remain at levels toxic to bees for several days following application. DO NOT apply where bees from managed hives are known to be foraging, and crops, weeds or cover crops are in flower at the time of spraying, or are expected to flower within several days.

- Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilizing beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.
- There is a risk of increased exposure to fine mist spray during application of the diluent within protected cropping situations (e.g. greenhouses, glasshouses and plastic tunnels). It is recommended that the following additional PPE be observed in addition to label directions when applying a foliar spray treatment within enclosed situations: *When using the dilute product, wear cotton overalls buttoned to the neck and wrist, chemical resistant gloves, protective face shield or goggles and disposable (mist) mask. Protective clothing should also be worn when re-entering the treated area prior to the spray drying. Wash hands after use. After each day's use, wash contaminated clothing, gloves and face shield/goggles.*

ALPHA-CYPERMETHRIN - DOMINEX DUO INSECTICIDE / CONQUEST ALPHA FORTE 250 SC INSECTICIDE

- DO NOT apply if rainfall is expected within 6 hours of application.
- DO NOT apply using backpack spraying equipment.
- Apply at a minimum re-treatment interval of 7 to 14 days.
- Dangerous to bees. DO NOT spray on any plants in flower while bees are foraging. This product is known to have a deterrent effect on foraging bees for a short period of time after spraying. Risk to bees is reduced by spraying in early morning and late evening while bees are not foraging.
- Very highly toxic to fish and aquatic life such as yabbies. DO NOT apply or allow spray drift onto adjacent non-target aquatic areas. Allow sufficient buffer distance between downwind non-target water bodies and sprayed area. Runoff from areas must be prevented from entering drains or waterways.
- When using the product in an enclosed/protected situation (e.g. glasshouse/greenhouse) where natural ventilation is restricted, also wear protective goggles and disposable face-mask (mist) that covers mouth and nose.
- DO NOT enter treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

AZADIRACTIN – AZAMAX INSECTICIDE

- Trials on sensitive plants such as ferns, poinsettias and African violets have resulted in crop damage. Minor phytotoxic effects have occurred in other species.
- Dangerous to aquatic invertebrates.

CHLORANTRANILIPROLE - CORAGEN INSECTICIDE / ACELEPRYN GR TURF INSECTICIDE

- Consecutive treatments should be applied 7 to 10 days apart.
- DO NOT apply if rainfall is expected within 2 hours of application. To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application.
- DO NOT apply when the soil is saturated with water as adequate distribution of the active ingredient vertically in the soil profile cannot be achieved under this condition.
- DO NOT apply more than 280 kg product per hectare per year in broadcast applications to turf.
- Very toxic to aquatic life. DO NOT allow effluent or run-off from protected cropping systems containing this product to enter dams, streams, ponds or other waterways.
- When using the product in an enclosed/protected situation (e.g. glasshouse/greenhouse) where natural ventilation is restricted, also wear protective goggles and disposable face-mask (mist) that covers mouth and nose.

CHLORANTRANILIPROLE & THIAMETHOXAM - DURIVO INSECTICIDE / SPINNER TURF INSECTICIDE

- DO NOT retreat within 14 days.
- DO NOT apply through any type of irrigation equipment.
- DO NOT apply if heavy rain is forecast.
- DO NOT apply more than one (1) application of Durivo or any other soil applied Group 4A Insecticide per crop. DO NOT apply any other Group 4A insecticide as a foliar spray after soil application of Durivo in that crop.
- DO NOT transplant seedlings treated by seedling drench into hydroponic production systems.
- DANGEROUS TO AQUATIC LIFE
- Highly toxic to bees. DO NOT apply this product while bees are foraging in the crop to be treated. Will kill bees directly exposed through contact during spraying and while spray droplets are wet on foliage. DO NOT apply to flowering plants. DO NOT allow product to drift onto flowering plants in the vicinity of the treatment area. Mow any plants in flower prior to spraying. Thiamethoxam has systemic action. The persistence of residues and expression of thiamethoxam in nectar and pollen suggests the potential for long term effects on honey bee larvae and colonies. Residues may remain at levels toxic to bees for several days after application. Where Durvino has been applied in or near the treatment/pollinator area, notify beekeepers prior to placing beehives in the treated field.
- DO NOT apply as a seedling tray application using equipment carried on the back of the user. DO NOT handle treated seedlings until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves.
- If applying by spray equipment carried on the back of the user, wear: cotton overalls over normal clothing, buttoned to the neck and wrist and elbow-length chemical-resistant gloves.
- There is a risk of increased exposure to fine mist spray during application of the diluent within protected cropping situations (e.g. greenhouses, glasshouses and plastic tunnels). It is recommended that the following additional PPE be observed in addition to label directions when applying a foliar spray treatment within enclosed situations: *When using the dilute product, wear cotton overalls buttoned to the neck and wrist, chemical resistant gloves, protective face shield or goggles and disposable (mist) mask. Protective clothing should also be worn when re-entering the treated area prior to the spray drying. Wash hands after use. After each day's use, wash contaminated clothing, gloves and face shield/goggles.*
- DO NOT enter treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

EMAMECTIN BENZOATE - PROCLAIM INSECTICIDE

- DO NOT apply spray if rainfall is imminent, or spray conditions are unfavourable i.e. high temperatures, high winds or inversion conditions).
- Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.
- Dangerous to fish and other aquatic organisms.
- When using the product in an enclosed/protected situation (e.g. glasshouse/greenhouse) where natural ventilation is restricted, also wear protective goggles and disposable face-mask (mist) that covers mouth and nose.
- DO NOT allow entry into treated areas for 8 hours or until spray has dried. If prior entry is necessary, wear chemical resistant gloves.

INDOXACARB - AVATAR INSECTICIDE / PROVAUNT TURF INSECTICIDE

- DO NOT retreat within 10 days. To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application.
- DO NOT apply if rainfall is expected within 2 hours of application.
- DO NOT irrigate to the point of runoff for at least 3 days after application.
- DO NOT use on container, hydroponic, greenhouse or glasshouse grown crops.
- Dangerous to bees. Harmful to bee brood. DO NOT allow spray drift to flowering weeds or flowering crops in the vicinity of the treatment area. DO NOT apply when bees are actively foraging. Avoid direct application or drift of the spray mix onto bee hives. After the spray has dried, bees can safely forage flowering crops. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray or spray drift.
- DO NOT apply within 20 m upwind of water bodies.
- DO NOT apply less than 80 m upwind of land potentially producing feed for livestock. If the wind direction is at an angle with regard to the field then the in-field buffer must be observed on both upwind sides of the feed producing land.
- Very toxic to aquatic life. DO NOT apply if there are aquatic and wetland areas including aquaculture ponds, surface streams and rivers within 10 metres downwind from application area.
- Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.
- DO NOT allow entry into treated areas until sprays have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist, a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

LAMBDA-CYHALOTHRIN - KARATE ZEON INSECTICIDE

- DO NOT apply if rain is expected within 6 hours.
- Treat plants on a 7 to 14 day schedule.
- Toxic to bees. DO NOT spray when bees are actively foraging. Risk is reduced by spraying in the early morning or late evening.
- Dangerous to fish and aquatic invertebrates.
- DO NOT allow entry into treated areas until the spray has dried. If prior entry is necessary, wear cotton overalls and chemical resistant gloves.

METHOMYL - LANNATE-L INSECTICIDE

- DO NOT use in covered or protected situations such as greenhouses, glasshouses or plastic tunnels.
- Keep unprotected persons and animals out of operational areas during treatment and while there is a danger of drift.
- DANGEROUS TO BEES – DO NOT spray plants in flower while bees are foraging. Ensure beehives are removed from the area to be treated and from adjacent paddocks. Methomyl is particularly toxic to bees and areas foraged by bees should not be sprayed for 10 days prior to flowering through to petal fall.
- DANGEROUS TO WILDLIFE, INCLUDING BIRDS AND FISH.
- DO NOT allow entry into treated areas for at least 24 hours after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat and elbow-length PVC gloves. Clothing must be laundered after each day's use.

METHOXYFENOZIDE - PRODIGY INSECTICIDE

- DO NOT re-treat within 10 days.
- DO NOT apply if rain or overhead irrigation is expected within 6 hours. Retain the first flush of irrigation tailwater/storm water in the tailwater dam after application.

- DO NOT use in covered or protected situations such as glasshouses, greenhouses, shade houses or plastic tunnels.
- DO NOT apply using spray equipment carries on the back of the user.
- Low hazard to bees. May be applied on plants at any time, Keep livestock out of operational areas during treatment. Avoid spray drift onto adjoining properties or stock areas.
- Toxic to aquatic life with long lasting effects. DO NOT spray across open bodies of water. DO NOT apply under meteorological conditions or from spray equipment which could be expected to cause spray drift onto adjacent areas, particularly wetlands, waterbodies or watercourses.
- DO NOT allow entry into treated areas until the spray has dried. If prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PYRETHRINS - PYGANIC ORGANIC INSECTICIDE

- DO NOT apply spray if rainfall is imminent, or spray conditions are unfavourable.
- Toxic to fish and other aquatic organisms.
- Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.
- When using the product in an enclosed/protected situation (e.g. glasshouse/greenhouse) where natural ventilation is restricted, also wear protective goggles and disposable face-mask (mist) that covers mouth and nose.
- DO NOT re-enter treated area until spray has dried, approximately 15 minutes after the application.

Withholding Period:

DO NOT GRAZE TREATED TURF/LAWN OR FEED LAWN CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK.

Jurisdiction:

All States and Territories.

Additional Conditions:

This permit allows for the use of a product in a manner specified on the permit. Persons who wish to prepare for use and/or use products for the purposes specified in this permit must read, or have read to them, the details and conditions of this permit. Unless otherwise stated, the use of the product must be in accordance with the product label.

PERSONS who wish to prepare for use and/or use products for the purposes specified in this permit must read, or have read to them, the DETAILS and CONDITIONS of this permit.

To Avoid Crop Damage

Nursery stock is not known to be sensitive to the chemical insecticide products listed in this permit when used in strict accordance with the rate, conditions of use and other warnings. However, the large number of disparate crop lines produced in commercial nurseries means that not all these products have been fully evaluated for crop safety on all species, or in all situations where treatment may be undertaken. Some of these insecticides may demonstrate toxicity under certain situations, application methods, application rates and weather conditions to susceptible nursery stock. Some insecticides may also leave undesirable spray residue on foliage and flowers. Users **must** treat a sample number of plants or a small area prior to whole crop treatment and monitor any phytotoxic effects that will compromise production goals. This action cannot guarantee crop safety as application, environmental and crop conditions may vary from test treatment to whole of crop treatment. Any instances of phytotoxic damage should be reported immediately to the permit holder.

Issued by the Australian Pesticides and Veterinary Medicines Authority