



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

**PERMIT TO ALLOW MINOR USE OF A REGISTERED AGVET CHEMICAL
PRODUCT FOR CONTROL OF *HELICOVERPA* SPP. AND SELECTED WEEDS IN
HEMP**

PERMIT NUMBER – PER86924

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 26 FEBRUARY 2019 TO 30 SEPTEMBER 2024

Permit Holder:

ECOFIBRE INDUSTRIES OPERATIONS LTD
80 Yarraman Place
VIRGINIA QLD 4014

Persons who can use the product under this permit:

Persons generally.

CONDITIONS OF USE

Products to be used:

NUFARM BROMICIDE 200 SELECTIVE HERBICIDE (APVMA No. 31614)
PLUS OTHER REGISTERED PRODUCTS

Containing: 200 g/L BROMOXYNIL present as the n-octanoyl ester as the only active constituent

VERDICT 520 HERBICIDE (APVMA No. 50643)

PLUS OTHER REGISTERED PRODUCTS

Containing: 520 g/L HALOXYFOP present as the haloxyfop-R methyl ester as the only active constituent

REGLONE NON-RESIDUAL HERBICIDE (APVMA No. 46534)

PLUS OTHER REGISTERED PRODUCTS

Containing: 200 g/L DIQUAT as the only active constituent

VIVUS MAX HELICOVERPA BIOCONTROL (APVMA No. 60905)

Containing: 5×10^9 polyhedral inclusion bodies of the nucleopolyhedrovirus of *Helicoverpa armigera* (native isolate) per mL as the only active constituent

STEWARD EC INSECTICIDE (APVMA No. 59573)

PLUS OTHER REGISTERED PRODUCTS

Containing: 150 g/L INDOXACARB as the only active constituent

SUREFIRE CHLORANTRANILIPROLE 350 WG INSECTICIDE (APVMA No. 88598)

PLUS OTHER REGISTERED PRODUCTS

Containing: 350 g/kg CHLORANTRANILIPROLE as the only active constituent

VANTACOR INSECTICIDE (APVMA No. 89966)

Containing: 600 g/L CHLORANTRANILIPROLE as the only active constituent

Directions for Use:

Crop	Pesticide	Pest	Rate	Critical Comments
Hemp (<i>Cannabis sativa</i>) (field)	200 g/L Bromoxonil Products	Amsinckia, Black Bindweed, Capeweed, Fat Hen, Field Madder, Lesser Swinecress, Shepherds Purse, Wireweed, Wild Radish, Fumitory, Wild Charlock, Sowthistle	1-1.4 L/ha	<ul style="list-style-type: none"> • Apply in a spray volume of 160-200 L/ha. • Apply at 4-6 leaf stage of the crop • Apply only TWO foliar applications per crop using boomspray. • DO NOT apply by mister machines. Do not apply if crops or weeds are stressed due to excessively dry or moist conditions. • DO NOT apply when rain is expected within 3 hours of spray application. • DO NOT apply when wind speed is less than 3 or more than 20km per hour at the application site. • DO NOT apply during surface temperature inversion conditions at the application site. • DO NOT apply during the hottest part of the day when temperatures exceed 20°C. Apply only in the late afternoon. • Significant variability in crop safety is known to occur in different varieties of hemp, this may be exacerbated in different soil types or climatic conditions. DO NOT apply to any crop without first determining sensitivity on a small area. If the level of crop safety is not acceptable in this small area, DO NOT apply to the remaining crop. DO NOT apply to the 'Finola' variety.
	520 g/L Haloxypop Products	Annual Ryegrass, Annual Phalaris, Barley Grass, Brome Grass, Crowsfoot Grass, Summer Grass, Barnyard Grass and volunteer cereals (Refer to the product label for conditions related to the listed weeds and levels of control)	100 mL/ha	<ul style="list-style-type: none"> • Apply only ONE foliar application per crop in a spray volume of 50-150L/ha using boomspray at 2nd to 8th leaf stage of the crop. • DO NOT apply after the 8th leaf stage of the crop. • Add Uptake (wetter) at 0.5L/100L of spray solution. • DO NOT apply to weeds which may be stressed due to prolonged periods of extreme cold, moisture stress, poor nutrition or previous herbicide treatment. • DO NOT apply when rain is expected within 1 hour of spray application.
	200 g/L Diquat Products	Pre-harvest crop desiccation	2-3 L/ha	<ul style="list-style-type: none"> • Apply only ONE application per crop using spray volume of 100-300L/ha when using boom spray. For aerial spray use a spray volume of 30-60L/ha. • Add Agral at 200 ml/100 L or BS 1000 at 160 ml/100 L. • Apply prior to harvest for crop desiccation.
	ViVUS Max Helicoverpa Biocontrol (5 x 10 ⁹ polyhedral inclusion bodies of the nucleopolyhedrovirus of <i>Helicoverpa armigera</i> (native isolate) per mL)	Cotton bollworm (<i>Helicoverpa armigera</i>) and native bud worm (<i>Helicoverpa punctigera</i>)	150 mL/ha	<ul style="list-style-type: none"> • Apply in a spray volume of a minimum of 100 L/ha for foliar application using boom spray OR using a minimum 30 L/ha spray volume using an aircraft. • Apply to coincide with egg hatching. • Apply when daytime temperatures are between 25°C and 35°C and when larvae are actively feeding.

Crop	Pesticide	Pest	Rate	Critical Comments
	150 g/L Indoxacarb Products		650 mL/ha or 850 mL/ha	<ul style="list-style-type: none"> • Apply in a spray volume of a minimum of 100 L/ha for foliar application using boom spray OR using a minimum 30 L/ha spray volume using an aircraft. • Apply only ONE application per crop • Apply to coincide with egg hatching and before larvae are entrenched in protected feeding sites. • DO NOT apply if rain is expected within 2 hours of application or if heavy dew is present in crops. • DO NOT apply when wind speed is less than 3 and greater than 20km/h or during weather conditions when surface temperature inversions can develop. • DO NOT apply within 50m (aerial application) or 20m (ground application) when there are livestock, pasture or any land that is producing feed for livestock downwind from the application area.
	350 g/kg Chlorantraniliprole Products		90 or 150 g/ha	<ul style="list-style-type: none"> • Apply in a spray volume of a minimum of 100 L/ha for foliar application using boom spray OR using a minimum 30 L/ha spray volume using an aircraft. • Add a non-ionic surfactant at 125g active/100L (e.g. BS 1000 at 125 ml/100L). • Apply only TWO applications per crop with a minimum re-treatment interval of 7 days. • Apply to coincide with egg hatching and before larvae are entrenched in protected feeding sites.
	Vantacor Insecticide (600 g/L Chlorantraniliprole)		55 or 90 mL/ha	<ul style="list-style-type: none"> • Follow all spray drift restraints on the registered product label • DO NOT apply if heavy dew is present on the crops or if rain is expected within 2 hours of application. • DO NOT apply when wind speed is less than 3 and greater than 20km/h. • DO NOT apply where there are aquatic and wetland areas including aquacultural ponds or surface streams and rivers downwind from the application area and within the mandatory no-spray zones - refer to the manufacturer's registered label.

Withholding Period:Bromoxynil

Harvest: NOT REQUIRED when used as directed.

Grazing: DO NOT graze or cut for stock food for 8 weeks after last application.

Haloxypop

Harvest: NOT REQUIRED when used as directed.

Grazing: DO NOT graze or cut for stock food for 28 days after application.

Diquat

Harvest: DO NOT harvest for 4 days after application

Grazing: DO NOT graze or cut for stock food for 2 days after application.

Nucleopolyhedrovirus of *Helicoverpa armigera*

Harvest: NOT REQUIRED when used as directed.

Grazing: Nil

Indoxacarb

Harvest: DO NOT harvest for 21 days after application

Grazing: DO NOT graze or cut for stock food for 21 days after application.

Export intervals: Livestock that have been grazing on treated crops should not be sold for export slaughter for 28 days after application of the chemical product, unless the export slaughter interval has been observed.

Chlorantraniliprole

Harvest: DO NOT harvest for 14 days after last application.

Grazing: DO NOT graze any treated area or cut for stock food.

Jurisdiction:

All States and Territories, except VIC

Note: Victoria is not included in this permit, as their Control-of-Use legislation means a permit is not required to legalise this off-label use in that State.

Note: A Department of Primary Industries (DPI) license is required to legally cultivate hemp (commercially or for research purposes) in NSW.

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.

To Avoid Crop Damage:

It is advisable to avoid spraying of emerging crops where possible. "Over-the-top" spray application has not been fully evaluated for industrial hemp crops under all growing conditions, and should only be considered a treatment option following trials that show hemp plants will tolerate herbicide application at the proposed rate and at the crop growth stages when treatment will be applied. Initially treat target weeds in a small area within the crop when "over-the-top" spray is to be applied, and closely monitor plant health. Discontinue applications when any adverse symptoms post-treatment are observed.

The sensitivity of some species and varieties of the crops to be treated under this permit has not been fully evaluated. It is advisable, therefore, to only trial herbicide products on target weeds within close proximity to a small number of plants to ascertain their reaction before treating a larger number or the whole crop area. Discontinue applications when any adverse symptoms post-treatment are observed.

Export of treated produce

Maximum Residue Limits (MRLs) or Temporary Maximum Residue Limits (TMRLs) have been established to allow treated produce to be used for human and/or animal consumption. MRLs can be found in the *Agricultural and Veterinary Chemicals Code (MRL Standard) Instrument 2019*. MRLs apply only to produce marketed and consumed in Australia. If treated produce is to be exported, residues must not exceed the limits/tolerances of the importing country.

Other Matters

Continued issuance of this permit is subject to the outcomes of the current APVMA review of diquat. This permit may be impacted by the outcomes of this review.

Issued by the Australian Pesticides and Veterinary Medicines Authority

Note: 16/09/2021 – Permit updated to change chlorantraniliprole product. Permit expiry extended to 30/09/2024. Permit issued as Version 2.

Note: 19/11/2021 – Permit updated to add 600 g/L chlorantraniliprole product. Permit issued as Version 3.