



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

**PERMIT TO ALLOW MINOR USE OF A REGISTERED AGVET CHEMICAL
PRODUCT FOR CONTROL OF VARIOUS WEEDS IN LETTUCE, CHICORY,
ENDIVE, RADICCHIO, SPINACH AND BABY SPINACH**

PERMIT NUMBER – PER81241

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 29 MAY 2015 TO 31 MAY 2025

Permit Holder:

HORTICULTURE INNOVATION AUSTRALIA LTD
Level 7, 141 Walker Street
NORTH SYDNEY NSW 2060

Persons who can use the product under this permit:

Persons generally.

CONDITIONS OF USE

Products to be used:

BETANAL FLOW HERBICIDE (APVMA No. 64522)

Containing: 160 g/L PHENMEDIPHAM as the only active constituent.

CAUTION: BETANAL HAS NOT BEEN FULLY EVALUATED FOR CROP DAMAGE AND HAS POTENTIAL TO DAMAGE SOME CROPS LISTED UNDER THIS PERMIT. READ AND OBSERVE THE PHYTOTOXICITY WARNING BEFORE USING THIS CHEMICAL.

RESTRAINT:

DO NOT use on chicory root crops or chicory grown for stockfeed.

DO NOT use extra hard or contaminated water.

DO NOT apply to crops which are wet.

DO NOT apply if temperature exceeds or is likely to exceed 25°C within the following 8 hours.

DO NOT apply to crops in a weak, damaged or stressed condition as severe damage may occur.

DO NOT tank mix with other herbicides.

DO NOT add wetting agents.

DO NOT use high spray pressures.

DO NOT apply using spraying equipment carried on the back of the user.

DO NOT apply by aircraft.

Directions for Use:

Crop	Pest	Rate
LETTUCE CHICORY ENDIVE RADICCHIO (field transplants only – all types)	As per the product label.	1.2 – 2.5 L/ha
SPINACH BABY SPINACH (field crops only)		

Critical Use Comments:

All crops

- Apply by ground boomspray or equivalent equipment only.
- Use a spray volume of 250 – 500 L/ha.
- DO NOT apply more than 1 application per crop.
- DO NOT apply *Betanal Flow Herbicide* for 2 weeks if *Kerb Selective Herbicide* or equivalent products containing the same active constituent propyzamide are applied post-transplant.

All crops excluding baby spinach

- Apply within 14 days of transplanting or emergence of the crop, when the plants have become established, or at early crop stage when a majority of weeds have germinated and are at the 2-4 leaf stage.
- Use only high spray volumes with low spray pressure for application. Ensure all weed surfaces are thoroughly covered by spray. The level of weed control will vary with the rate used and species susceptibility. The use of a pre-emergent herbicide is recommended, to reduce weed load on post-emergence applications.

Baby spinach

- Only spray during the cool parts of the day. Temperature in the following 8 hours must not exceed 25°C.
- Apply from cotyledon to 2-leaf stage only. Lower rates only should be used at cotyledon to 1-leaf stage.
- Use a minimum spray volume of 250 L/ha with low pressure for application. Ensure all weed surfaces are thoroughly covered by spray. The level of weed control will vary with the rate used and species susceptibility. The use of a pre-emergent herbicide is recommended to reduce weed load on post-emergence applications.
- Ensure spray tank is clean and free of any spray residues.
- Use *Betanal Flow Herbicide* at higher rates in cooler growing areas during the cooler months of the year.
- Always exercise caution when using *Betanal Flow Herbicide* during October to March as crop damage can occur.

Re-entry or Re-handling:

After treatment, do not enter treated areas until 10 days after treatment for low exposure activities such as irrigation, scouting, thinning and weeding of plants, 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.

Withholding Period:

Harvest: Do not harvest for 28 days after application.

Grazing: Do not graze 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.

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.

Phytotoxicity warning

Betanal Flow Herbicide is primarily absorbed via the leaves. Absorption increases with temperature and light intensity. Ideally, apply *Betanal Flow Herbicide* on a cool, cloudy day.

Soil uptake also contributes significantly to phytotoxicity and depends on the level of organic matter in the soil. *Betanal Flow Herbicide I*, at higher rates, can cause severe damage in some crops when used in soils that are low in organic matter.

DO NOT apply *Betanal Flow Herbicide* unless phytotoxicity has been fully assessed (factoring in all soil types and stress factors) to determine if any damage is acceptable for your production purposes. This is especially important in crops where blemishes are unacceptable.

All instances of unacceptable phytotoxicity must be reported to the Permit Holder.

Export of treated produce

Temporary Maximum Residue Limits (TMRLs) have been established to allow treated produce to be used for human consumption. TMRLs have been established for PHENMEDIPHAM in LEAFY VEGETABLES and RADICCHIO. TMRLs can be found in the *Agricultural and*

Veterinary Chemicals Code Instrument No. 4 (MRL Standard). TMRLs 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.

Issued by the Australian Pesticides and Veterinary Medicines Authority

Note: 11/05/2018 – Permit updated to update holder details and approved product list. Permit issued as Version 2.
30/03/2020 – Permit expiry extended to 31/05/2025. Re-entry and re-handling statement added. Permit issued as Version 3.