



**PERMIT TO ALLOW MINOR USE OF AN AGVET CHEMICAL PRODUCT
FOR THE CONTROL OF CERTAIN PESTS ON BRASSICA LEAFY VEGETABLES
AND RADISHES.**

PERMIT NUMBER -PER11475

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 any person to claim that the product can be used in the manner specified in this permit.

THIS PERMIT IS IN FORCE FROM 11 JUNE 2009 TO 30 JUNE 2012.

Permit Holder:

AgAware Consulting Pty Ltd on behalf of HORTICULTURE AUSTRALIA 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:

DOMINEX 100 EC INSECTICIDE

FASTAC DUO INSECTICIDE

Plus other registered products containing:

100g/L ALPHA-CYPERMETHRIN as their only active constituent.

FASTAC XCEL INSECTICIDE

Plus other registered products containing:

250g/L ALPHA-CYPERMETHRIN as their only active constituent.

Directions for Use:

Crop	Pest	Rate	Withholding period	Critical use comments
Brassica leafy vegetables (refer to crops listed on Attachment 1)	Redlegged earth mite (<i>Halotydeus destructor</i>)	<u>100g/L products:</u> Pre-emergence: 100mL/ha OR Post emergence: 50mL/ha <u>250g/L products:</u> Pre-emergence: 40mL/ha OR Post emergence: 20mL/ha	DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.	Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor redlegged earth mite numbers and re-treat if necessary. Post emergence: Apply when mite numbers reach damaging levels. Do not apply as a pre-emergence treatment. Do not apply as a ULV treatment.
	Plague thrips (<i>Thrips imaginis</i>)	<u>100g/L products:</u> Low volume - 52mL/ha OR High volume - 7.2mL/100L <u>250g/L products:</u> Low volume - 130mL/ha OR High volume - 18mL/100L		The crop should be frequently checked when it is flowering for the presence of the pest. Apply when the infestation reaches an economically damaging level. Low Volume: Apply in 100 to 400L of water/ha as a fine spray. High Volume: Apply as a medium to fine spray. Gradually increase the spray volume as the plants grow, from 200L/ha just after planting, to 1000L/ha at maturity.

Directions for Use (continued):

Crop	Pest	Rate	Withholding period	Critical use comments
<p>Radish (<i>Raphanus sativus</i>)</p>	<p>Redlegged earth mite (<i>Halotydeus destructor</i>)</p>	<p><u>100g/L products:</u> Pre-emergence: 50mL/ha OR Post emergence: 100mL/ha</p> <p><u>250g/L products:</u> Pre-emergence: 20mL/ha OR Post emergence: 40mL/ha</p>	<p>NOT REQUIRED WHEN USED AS DIRECTED.</p>	<p>Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor redlegged earth mite numbers and re-treat if necessary.</p> <p>Post emergence: Apply when mite numbers reach damaging levels. Do not apply as a pre-emergence treatment. Do not apply as a ULV treatment.</p>
	<p>Cabbage white butterfly (<i>Pieris rapae</i>), Cluster caterpillar (<i>Spodoptera litura</i>) and Heliothis (<i>Helicoverpa spp.</i>)</p>	<p><u>100g/L products:</u> 400mL/ha</p> <p><u>250g/L products:</u> 160mL/ha</p>	<p>DO NOT HARVEST FOR 5 DAYS AFTER APPLICATION.</p>	<p>Apply according to pest incidence. When reinfestation is continuous, treatment every 7-10 days may be required. Add a non-ionic surfactant at registered label rates.</p> <p><u>Low Volume</u> <i>Ground rig application:</i> Apply in 100-600L water/ha as a fine spray (droplet size 100-200 microns). <i>Aerial application:</i> Apply in 20-60L water/ha with a droplet size of 100-150 microns.</p> <p><u>High Volume</u> Gradually increase the spray volume as the plants grow, from 600L/ha just after transplanting to 1000L/ha at maturity. Apply as a medium spray (droplet size of 200-400 microns). <i>Helicoverpa armigera:</i> Follow the application directions above. Apply as required according to pest incidence. Thorough and frequent crop checks are essential. Preferably apply to eggs. Apply to larvae only if they are less than 5mm long.</p>

Additional Critical Use Comments (all use patterns):

- It is essential to apply in sufficient volume to penetrate the plant canopy and evenly cover the plant surface.
- Monitor the pest population and target application to coincide with susceptible life stages.
- To prevent resistance developing, alpha-cypermethrin applications should be alternated with other registered or permitted products.
- Follow the Insecticide Resistance Warning on the product label.

Jurisdiction:

ACT, NSW, QLD, SA, TAS, NT & WA ONLY.

(Note: Victoria is not included in this permit because their 'control-of-use' legislation means that a permit is not required to legalise this off-label use in that State).

Additional Conditions:

THIS PERMIT provides for the use of a product in a manner other than specified on the approved label of the product. Unless otherwise stated in this permit, the use of the product must be in accordance with instructions on its 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.

Issued by

Delegated Officer

ATTACHMENT 1

Brassica leafy vegetables covered by this permit are:

Asian names	Common names	Scientific names
Bok choy	Chinese white cabbage Chinese chard	<i>B. rapa var chinensis</i> <i>B. chinensis var communis</i>
Pak choy	Chinese white cabbage Chinese chard	<i>B. rapa var chinensis</i> <i>B. sinensis</i>
Choi sum	Chinese flowering cabbage	<i>B. rapa var parachinensis</i> <i>B. campestris var parachinensis</i>
Gai lum Gai lan Kai lan	Chinese broccoli	<i>B. oleraceae var alboglabra</i>
Kai choi	Indian mustard cabbage	<i>B. juncea</i>
Wong bok Pet sai Haksukai	Chinese cabbage	<i>B. rapa var pekinensis</i>
Mizuna	Mizuna greens	<i>B. rapa var japonica</i>
Amsoi	Red mustard	<i>B. juncea var rugosa</i>
Taishona	Curled mustard	<i>B. juncea</i> variety unknown
Komatsuma	Mustard spinach	<i>B. pervirdes</i>
Tatsoi	Chinese flat cabbage	<i>B. rapa var rosularis</i>
Gai choy Kai choi Am soi	Chinese mustard Indian mustard	<i>B. juncea var rugosa</i>
Unknown	Turnip greens	<i>B. rapa var rapa</i>
Unknown	Mustard greens	<i>B. juncea</i> unknown variety
Unknown	Rutabaga greens	Unknown
Mibuna	Unknown	<i>B. rapa var nipposinica</i>
Kale	Unknown	<i>B. oleracea convarcephala var acphala</i>