



**PERMIT TO ALLOW MINOR USE OF AN AGVET CHEMICAL PRODUCT**

**FOR CONTROL OF SPECIFIED WEEDS IN LEEKS AND GARLIC**

**PERMIT NUMBER – PER81271**

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 10 NOVEMBER 2015 to 31 OCTOBER 2021**

**Permit Holder:**

QUEENSLAND FRUIT & VEGETABLE GROWERS LTD  
68 Anderson Street  
FORTITUDE VALLEY QLD 4006

**Persons who can use the product under this permit:**

Persons generally.

## CONDITIONS OF USE

### **Products to be used:**

FLOWABLE GESATOP 500 SC LIQUID HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 500 g/L SIMAZINE as their only active constituent.

BRUNO HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 500 g/L CYANAZINE as their only active constituent.

BLADEX 900 WG HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 900 g/kg CYANAZINE as their only active constituent.

RAMROD FLOWABLE HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 480 g/L PROPACHLOR as their only active constituent.

TOTRIL SELECTIVE HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 250 g/L IOXYNIL as their only active constituent.

TRAMAT 500 SC SELECTIVE HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 500 g/L ETHOFUMESATE as their only active constituent.

GOAL HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

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

TITAN PENDIMETHALIN 330 HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 330 g/L PENDIMETHALIN as their only active constituent.

CROP CARE ROMPER 440EC HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 440 g/L PENDIMETHALIN as their only active constituent.

STOMP XTRA HERBICIDE

PLUS OTHER REGISTERED PRODUCTS

Containing: 455 g/L PENDIMETHALIN as their only active constituent.

**Directions for use:**

Crop	Target weed	Active Constituent and Rate	Withholding Period	Critical Use Comments
LEEKS	GRASS AND/OR BROADLEAF WEEDS AS CONTAINED ON THE RELEVANT PRODUCT LABEL FOR ONIONS	<u><b>Simazine (500g/L):</b></u>  2.2 L/ha	NOT REQUIRED WHEN USED AS DIRECTED	<ul style="list-style-type: none"> <li>▪ Apply immediately (within 2 days) after transplanting.</li> <li>▪ Apply maximum one (1) foliar spray using calibrated boom spray or similar equipment.</li> <li>▪ Use suitable water volume to achieve good, even coverage.</li> </ul>
		<u><b>Cyanazine (500g/L):</b></u>  2 L/ha  <u><b>Cyanazine (900g/kg):</b></u>  1.1 kg/ha		<ul style="list-style-type: none"> <li>▪ Apply at 2 - 4 leaf stage after transplanting.</li> <li>▪ Apply maximum one (1) foliar spray using calibrated boom spray or similar equipment.</li> <li>▪ Use water volume of 80 – 200 L/ha.</li> <li>▪ Apply only during the cooler months (late autumn – early spring)</li> </ul>
		<u><b>Propachlor (480g/L):</b></u>  12 L/ha		<ul style="list-style-type: none"> <li>▪ Apply a maximum one (1) spray immediately after seeding or transplanting.</li> <li>▪ Use water volume of 200 L/ha with a pressure of 200 kpa.</li> <li>▪ Moisture, either as rain or overhead sprinklers, should be applied within 10 days after application for optimal performance.</li> <li>▪ For sand soils, 7 mm of irrigation should be applied. For heavy clay and/or high organic soils, 7 to 18 mm should be applied.</li> </ul>
		<u><b>Ioxynil (250g/L):</b></u>  2.1 L/ha	DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION	<ul style="list-style-type: none"> <li>▪ For both field-sown and transplanted leeks, apply one (1) application only by boom spray, during the 5-8 leaf stage of the crop.</li> <li>▪ Use water volume of 300 – 500 L/ha.</li> <li>▪ DO NOT apply to crops or weeds that are stressed due to lack of moisture or frost, or affected by disease.</li> <li>▪ DO NOT apply immediately before a sprinkler irrigation or when rain is likely to fall. A three-hour drying period after application is necessary.</li> </ul>

- Users must observe all **Additional Conditions** as contained on page 7 of this permit.

Crop	Target weed	Active Constituent and Rate	Withholding Period	Critical Use Comments
LEEKS (Continued)	GRASS AND/OR BROADLEAF WEEDS AS CONTAINED ON THE RELEVANT PRODUCT LABEL FOR ONIONS	<u>Ethofumesate</u> <u>(500g/L):</u> 600 mL – 1.2 L/ha	DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION	<ul style="list-style-type: none"> <li>▪ Use as directed on the label for onions, applying by boom spray at the 2 - 5 leaf stage of the crop.</li> <li>▪ Apply maximum one (1) foliar spray using calibrated boom spray or similar equipment.</li> </ul> <p><b>WARNING:</b> Some phytotoxicity has been observed in some cases, hence:</p> <ul style="list-style-type: none"> <li>• some small area testing is recommended before treating a complete crop; and</li> <li>• only spray crops that are healthy, free from pest/disease and other stresses.</li> </ul>
		<u>Oxyfluorfen</u> <u>(240g/L):</u> 50 mL/ha  and/or  350 – 500 mL/ha	NOT REQUIRED WHEN USED AS DIRECTED	<p>For sown <b>or</b> transplanted leeks, apply:</p> <ul style="list-style-type: none"> <li>• the 50 mL/ha application at the 1-leaf stage of the crop; and/or</li> <li>• the 350 - 500 mL/ha application at the 2.5 - 3 leaf stage of the crop.</li> </ul> <p>DO NOT apply more than two (2) applications per crop, with minimum interval between consecutive sprays the period between the 1-leaf and 2.5 leaf stage (as applicable to cultivar and location).</p> <p>Apply in at least 100 L water/ha at pressures below 150 kPa.</p> <p><b>DO NOT EXCEED A TOTAL OF 550 mL OF PRODUCT OVERALL FOR THE TWO SPRAYS PER CROP.</b></p> <p>For other relevant critical comments for leeks, refer to the critical comments on label for onions.</p> <p>NOTE: Some flecking, twisting or stunting of crop plants can occur, though it is usually short lived.</p>

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Crop	Target weed	Active Constituent and Rate	Withholding Period	Critical Use Comments
LEEKS (Continued)	HOGWEED (Wireweed)	<p><b><u>Pendimethalin</u></b> <b><u>(various):</u></b></p> <p><u>330 g/L</u> <u>Pendimethalin</u> 0.75 – 1.5 L/ha</p> <p><u>440 g/L</u> <u>Pendimethalin</u> 0.56 – 1.125 L/ha</p> <p><u>455 g/L</u> <u>Pendimethalin</u> 0.54 – 1.09 L/ha</p>	NOT REQUIRED WHEN USED AS DIRECTED	<p><u>Transplanted crops:</u> Apply foliar spray at the 1.5 leaf stage of the crop and repeat application (if required) at the 3 leaf stage of the crop. The minimum treatment interval between consecutive as applicable to cultivar and location. Apply using 50 to 200 L-water/ha. DO NOT apply more than two (2) applications per crop.</p> <p><u>Direct seeded crops:</u> Apply herbicide as per instructions on product label, for onions: 1 surface application as a pre-emergence-crop/weed application, and one further application as a post-emergence-crop/pre-emergence-weed application, between the 1 and 3 leaf stage of the crop. Minimum days between pre emergence crop/weed and post emergence crop/pre-emergence weed (between the 1 and 3leaf stage) as applicable to cultivar and location Apply using 50 to 200 L water/ha. Use the higher rates of water for pre-emergence applications. DO NOT apply more than two (2) applications per crop. For optimal performance, incorporate with 12 – 25 mm of spray irrigation within one day of application.</p> <p><b>WARNING: CROP PHYTOTOXICITY HAS BEEN OBSERVED IN SOME CASES, with post-emergence-crop application.</b> To reduce this or avoid it altogether, water the sprayed crop within 1 hour of application, to remove the chemical from the crop.</p>

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Crop	Target weed	Active Constituent and Rate	Withholding Period	Critical Use Comments
GARLIC	GRASS WEEDS AS CONTAINED ON THE PRODUCT LABEL FOR ONIONS	<u><b>Propachlor</b></u> <b>(480 g/L):</b> 12 - 15 L/ha	NOT REQUIRED WHEN USED AS DIRECTED	<ul style="list-style-type: none"> <li>▪ Apply product as a surface spray immediately after planting prior to weed or seeded crop emergence.</li> <li>▪ Apply in a minimum of 200 L/ha water.</li> <li>▪ Use the lower application rate on light – medium textured soils and the higher rate on heavy textured soil.</li> <li>▪ Moisture is required to activate the product. Apply with overhead sprinkler or rain. Best results occur when moisture is received within 10 days after application.</li> </ul>
	HOGWEED (Wireweed)	<u><b>Pendimethalin</b></u> <b>(330 g/L):</b> <u>PRE-EMERGENCE:</u> 0.75 – 1.0 L/ha <u>POST-EMERGENCE:</u> 1.0 - 2.0 L/ha		<u>PRE-EMERGENCE:</u> <ul style="list-style-type: none"> <li>▪ Apply surface spray immediately after sowing to just prior to emergence.</li> <li>▪ Use the higher rate on heavy textured or highly organic soils.</li> <li>▪ DO NOT EXCEED 0.75 L PRODUCT/HA IF SOIL CONDITIONS ARE WET AND COLD.</li> <li>▪ For optimal performance, incorporate with 12 – 25 mm of spray irrigation within one day of application.</li> </ul> <u>POST-EMERGENCE:</u> <ul style="list-style-type: none"> <li>▪ Apply foliar spray from the 1-3 true leaf stage.</li> <li>▪ Repeat applications may be made up to the 3 true leaf stage.</li> <li>▪ DO NOT EXCEED A TOTAL 3 L PRODUCT/HA PER CROP.</li> </ul> <u>GENERAL INSTRUCTIONS:</u> <ul style="list-style-type: none"> <li>▪ Use spray volume 50 – 200 L/ha.</li> <li>▪ DO NOT use on sandy soils.</li> <li>▪ Avoid applying product to areas where waterlogging is likely to occur.</li> <li>▪ Crops may only be sown after a minimum interval of 5 months (from last application).</li> </ul>

- Users must observe all **Additional Conditions** as contained on page 7 of this permit.

**Jurisdiction:**

ALL STATES, except VIC.

Note: Victoria is not included in this permit, as their *Control-of-Use* legislation does not required a permit 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. This includes ALL label **RESTRAINTS**, **GENERAL INSTRUCTIONS** and **PRECAUTIONS**.

PERSONS who wish to prepare for use and/or use the products for the purposes specified in this permit must read, or have read to them, the permit particularly the information included in **CONDITIONS OF USE**.

**TO AVOID CROP DAMAGE:**

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 treat a small number of plants to ascertain their reaction before treating the whole crop.

**EXPORT OF TREATED PRODUCE:**

To allow produce from treated plants to be supplied or otherwise made available for consumption the APVMA has established the following maximum residue limits (MRLs);

Simazine - Leeks - \*0.01 mg/kg

Cyanazine – Leeks – 0.05 mg/kg

Ioxynil – Leeks – T2 mg/kg

Propachlor – Leeks - \*0.02 mg/kg, Garlic – 2.5 mg/kg

Ethofumesate – Bulb vegetables - \*0.1 mg/kg

Oxyfluorfen - Bulb vegetables - \*0.05 mg/kg

Pendimethalin - Bulb vegetables - \*0.05 mg/kg

These limits apply only to produce marketed and consumed in Australia. If treated produce is to be exported, due account should therefore be taken of the residue definition and residue limits/import tolerances of importing countries and that any residues must not exceed those requirements of the importing country.

Issued by the Australian Pesticides and Veterinary Medicines Authority