



RAPID SCIENCE MEMO

Summary

Substance	AGPRO AQUALON
Application code	APP204110
Application sub-type	Reduced hazard
Applicant	Agpro Direct
Purpose of the application	To import or manufacture AGPRO AQUALON for release
Date application formally received	9 October 2020

1. Key Points

- 1.1. AGPRO AQUALON is an aquatic herbicide containing up to 537.8 g/L of triclopyr triethylamine as the active ingredient. It is intended to be manufactured in New Zealand and applied using ground-based and aerial application methods at rates of up to 22 L formulated product/ ha or 7.92 kg triclopyr equivalent /ha to control aquatic problem plants, such as alligator weed and broadleaf weeds in or near wetlands.
- 1.2. No major issues were identified with this substance.

2. Status Of Substance (SOS) or statutory determination history

- 2.1. No SOS or statutory determinations were issued for AGPRO AQUALON.

3. Identification of substance and reference

- 3.1. The reference proposed by the applicant and identified by the EPA are the same (see Table 2)

Table 2: identified references for the rapid assessment of AGPRO AQUALON

	Substance to be approved	Reference
Name	AGPRO AQUALON	Garlon 360
Substance database ID	50357	18283
HSNO Approval number	-	HSR007690
Substance physical form	Soluble concentrate	Soluble concentrate
Active ingredient(s) and concentration (g/L)	Triclopyr triethylamine (360 g/L triclopyr equivalent)	Triclopyr triethylamine (360 g/L triclopyr equivalent)

4. RAPID assessment criteria

Active ingredient

- 4.1. This substance meets the active ingredients criteria.
The concentration of the active ingredient in AGPRO AQUALON is the same as that of the reference substance.

Physical form

- 4.2. AGPRO AQUALON is in the same physical form as the reference substance, namely as a soluble concentrate.

Use pattern

4.3. This substance meets the use pattern criteria. Both AGPRO AQUALON and the reference substance are herbicides used in a similar manner (see Table 3).

Table 3: Use pattern of AGPRO AQUALON in comparison to its reference substance

	Substance to be approved	Reference
Target pest	Aquatic weeds, such as Blackberry, Broom, Asiatic knotweed, Hawthorn, Maples, Poplar, Alligator weed, Parrots feather, Willow species	Aquatic weeds, such as Alligator weed, Parrots feather, Willow species, Primrose willow, Purple loosestrife, Asiatic knotweed, Mothplant, Old man's beard, and Climbing spindleberry
Application area	Aquatic zone – non irrigation, not aquatic farm	Wetlands and swamps, semi-aquatic situations to terrestrial situations on farmland, drains and canals
Application rate (kg a.i./ha)	7.92 kg of triclopyr per hectare	7.92 kg of triclopyr per hectare
Comment on any differences	-	
Are the differences insignificant in terms of risk of adverse effects?	Both substances are intended for ground-based methods and aerial application for similar situations and with the same application rate of triclopyr, therefore, the adverse effects are expected to be similar.	

Major Hazardous Components

4.4. AGPRO AQUALON meets the major hazardous components criteria. The major hazardous components in AGPRO AQUALON constitute a similar proportion (47.2%) as in the reference substance (44.4%).

Adverse Effects

4.5. AGPRO AQUALON meets the adverse effects criteria, as the hazards of this substance are reduced compared to the reference substance (see Table 4). AGPRO AQUALON has no classification for metal corrosivity, and a reduced hazard classification for acute toxicity (oral) and aquatic ecotoxicity compared to the reference substance.

Table 4: comparison of the respective classifications of AGPRO AQUALON and its reference substance

Classification comparison	
Substance	3.1C, 6.1E (oral), 6.5B, 6.9B (oral), 8.3A, 9.1B, 9.2A, 9.3C
Reference	3.1C, 6.1D (oral), 6.5B, 6.9B (oral), 8.1A, 8.3A, 9.1A, 9.2A, 9.3C

5. Controls

EPA Notice controls

- 5.1. The Labelling, Safety Data Sheet (SDS), Packaging, Disposal and Hazardous Property Controls (HPC) Part 1, Part 3, Part 4A, Part4B and Part 4C Notices apply to AGPRO AQUALON.
- 5.2. The name and concentration of the following components need to be specified on the label and SDS (see Table 5).

Table 5: Components required on the label and SDS of AGPRO AQUALON

Labelling requirement	SDS requirement
Triclopyr triethylamine (6.5B, 6.9B, 8.3A)	Triclopyr triethylamine (6.5B, 6.9B, 8.3A, 9.1B)

- 5.3. The following Tolerable Exposure Limit (TEL) value has been set previously for triclopyr in the reference substance: $TEL_{water} = 0.1 \text{ mg/L}$. This value must be stated on the SDS.
- 5.4. An Environmental Exposure Limit (EEL) value had been set previously for triclopyr in the reference substance: $EEL_{water} = 59 \text{ } \mu\text{g/L}$. This value must be stated on the SDS.
- 5.5. A maximum application rate is proposed for AGPRO AQUALON because this control was applied to the reference substance.

Controls varied or added under section 77A

Application restrictions

- 5.6. The maximum application rate for application of this substance onto or into water is: 7.92 kg ai/ha, a maximum of three times per year with a minimum application interval of 30 days.

Permission

- 5.7. A person must not apply or otherwise use this substance onto or into water, unless that person first obtains a permission from the Authority under section 95A of the Hazardous Substances and New Organisms Act 1996.

Aquatic Herbicide Aquatic Farms

- 5.8. A person who applies the substance onto or into water must ensure that the substance is not applied in a manner that may cause harm to aquatic farms where food is produced.

Aquatic Herbicide Irrigation

- 5.9. A person who applies the substance onto or into water must ensure that the substance is not applied in a manner that may cause harm to crops using water taken from that water body.

Aquatic Herbicide Signage

- 5.10. A person who applies the substance onto or into water must ensure that signage is erected and maintained at all public access points within 100 m of the application area to notify the public that application of a herbicide onto or into water has been undertaken and state the following:

- Do not swim;
- Do not gather food from the waterway (including fish); and
- Do not take water for consumption.

- 5.11. The signs must be erected on the day of, and prior to, the operation and remain in place for five days after application. The signs must be removed at the end of this period. The signs must be capable of being read at a distance of at least five metres during daylight hours.

Aquatic Herbicide Notification

- 5.12. A person who applies the substance onto or into water must ensure that any parties who may be potentially directly affected are notified of details of the operation, including treatment dates, the identity of the substance which is being used and relevant restrictions on the use of water, at least five working days prior to each application of the substance.

Aquatic Herbicides Nonylphenols

- 5.13. A person who applies the substance onto or into water must ensure that the substances covered by this approval are not applied onto or into water if they contain nonylphenol ethoxylates as a component of their formulation.

Aquatic Static Water

- 5.14. A person who applies the substance onto or into water must ensure that the substance is not applied, in any single application, onto more than 33% of the surface area of any static water body.
- 5.15. If applications of the substance onto or into any static water body, taken cumulatively within a seven day period, arrive at more than 33% of the surface area of the water body, the substance must not be applied to any additional sections of the water body for at least seven days after the last application of the substance to that water body.
- 5.16. These controls do not apply if the average dissolved oxygen level for the static water body is less than 4 mg/l at the time of application.

Aquatic Incident Reporting

- 5.17. A person who applies the substance onto or into water must ensure that any instances of unintended or accidental by-kills are reported (including the time, date and location monitoring was undertaken) to the EPA within a week of the application of the substance. This excludes the by-kill of non-target plants that may be expected from the herbicidal nature of the substance.

Aquatic Herbicide Reporting

- 5.18. A person who applies the substance onto or into water must ensure that the Environmental Protection Authority is provided with an annual written report by 31st July each year. This report will cover all applications of the substances onto or into water for which they are responsible and must include the following information;

- A map of all locations where the substance has been applied;
- Details of the spray operation by location, including application method used, quantity of the substance applied, rates of application, frequency of application and the dates of application;
- Details (including results) of water sampling conducted to confirm compliance with EEL values;
- Details of sediment testing conducted;
- Details of pest plant species targeted;
- Details of dissolved oxygen levels prior to application of the substance to any static water body;
- Details of pH testing conducted prior to application of substances containing metsulfuron-methyl;
- Details of engagement/consultation activities undertaken;
- Details of any incidents reported or complaints received in reference to the application of the substance and details of any actions taken to remedy complaints; and
- An overall assessment of the outcome of each operation and any proposed follow-up spraying for the forthcoming year.