

TECH UPDATE – SUMMER 2018

SAMURAI® FOR CONTROL OF CARPOPHILUS BEETLE AND CAROB MOTH IN ALMONDS

In November 2018, the APVMA granted a permit for the use of Samurai systemic insecticide to the Almond Board of Australia.

The permit is for the control of Carpophilus beetle (*Carpophilus davidsoni* or *Carpophilus hemipterus*) and Carob moth (*Ectomyelois ceratoniae*) in almonds, and applies to NSW, SA, VIC and WA. This permit can be found on the APVMA website at:

<http://permits.apvma.gov.au/PER87311.PDF>

This tech update provides additional important information that users should consider before applying Samurai (see over page).

Permit details

SAMURAI SYSTEMIC INSECTICIDE (APVMA No. 60687). Containing: 500 g/kg CLOTHIANIDIN as the only active constituent.

Directions for use

Crop Type	Insect Pest	Application Rate
Almonds	Carpophilus beetle (<i>Carpophilus davidsoni</i> or <i>Carpophilus hemipterus</i>) Carob moth (<i>Ectomyelois ceratoniae</i>)	40 g/100 L plus 50 mL/100 L Maxx™ Organosilicone Surfactant

Critical use comments

- Apply initial spray as a foliar application at start of hull split and again at 40% hull split, approximately 4-5 weeks and then 2-3 weeks before harvest.
- Apply using calibrated air-blast sprayer or equivalent equipment in a spray volume of 1,125 L/ha (see over page).
- DO NOT apply more than two (2) applications per season, with a minimum 14 days between consecutive foliar sprays.
- The use of chemical insecticide sprays should be used in conjunction with cultural control methods to prevent excessive build-up of resident Carpophilus beetle populations.
- DO NOT spray if bees are foraging in the crop. Dangerous to bees and will kill bees foraging in the crop to be treated or in hives which are oversprayed or reached by spray drift, and residues may remain toxic to bees several days after application.
- Clothianidin may have adverse effects on some non-target beneficials, in particular to foliage dwelling predators where Integrated Pest Management is practiced.

Withholding period

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

Grazing: DO NOT graze treated area or cut treated area for livestock feed.

Jurisdiction: NSW, SA, VIC and WA only.

Export of treated produce:

Treated crop commodities destined for export may require extra time being allowed between application and harvest, to be accepted in some export markets. Before you use this product, you are advised to contact the Almond Board of Australia about any potential trade issues and their management.

IMPORTANT TECHNICAL INFORMATION TO CONSIDER IF SPRAYING SAMURAI ON ALMONDS

1. Although the small plot trials and bioassays Sumitomo Chemical has conducted and that were used to support this permit show good efficacy, Samurai has not been thoroughly tested in commercial situations. Sumitomo Chemical plan to complete this in the 2019 season.
2. Based on experience in other crops, efficacy on carpophilus beetle is likely to be good but on carob moth may not be as good. The two pests often occur together so Samurai may control them both but it is possible that some damage may still occur.
3. Sumitomo Chemical recommend that this first season growers test the product on limited areas of high infestation and monitor its performance carefully to see if additional control measures are required.
4. The permit recommends two sprays, the first at the start of hull split and the second at about 40% hull split. Based on trial results these seem to be the best timings, but obviously if there are two or three varieties in a block, hull split will be spaced over several weeks, so some compromise is necessary. Spray timings should be based on the variety that is most prone to pest infestation.
5. It is important that growers are aware of the 14 day preharvest interval and make sure that the last spray in a block goes on at least 14 days before the first variety is harvested – to adhere to the recommended preharvest interval.
6. The spray rate of 1,125 L/ha was based on trial data on medium sized trees. Thorough wetting is required and water rates should be adjusted accordingly.

For further information on Samurai, please contact:

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Scan here to see more information about Samurai Systemic Insecticide

Regarding MRLs- Sumitomo Chemical has been informed by the APVMA that the following temporary MRLs have been established:

TABLE 1: Food commodity

Crop type	mg / kg
Almond kernels	T0.05

TABLE 2: Animal feed commodity

Feed type	mg / kg
Almond hulls	T5

1. The temporary clothianidin MRLs set by APVMA for this permit are 0.05 mg/kg for almond kernels and 5 mg/kg for almond hulls.
2. APVMA have determined that the MRL of 5 mg/kg in almond hulls is considered safe and should not result in a detectable residue transfer to animal tissues provided that almond hulls constitute not more than 10% of a daily intake for beef and dairy cattle for any prolonged period of time. The maximum average content of almond hulls in feed is included in the OECD "Guidance document on residues in livestock" from 2013 and it was a basis for risk assessments performed by the APVMA when establishing MRL of 5 mg/kg for almond hulls. If treated hulls are to be supplied for annual feed they should be tested to ensure they comply with the temporary MRL of 5mg/kg, and ensure customers understand that the hulls should not comprise more than 10% of daily intake for beef and dairy cattle for any prolonged period of time.
3. The kernel MRL which may be required for export crops will be entered into Schedule 20 of the food standards code in February 2019 following the World Trade Organisation/SPS consultation.
4. Growers should test their kernels and check with the Almond Board of Australia before applying Samurai to ensure that their almonds will meet the requirements of their export markets. This may require extra time to be allowed between application and harvest.
5. The grazing withholding period applies to grazing livestock on the treated area, or cutting the treated area for stock feed (which should be interpreted as cutting hay from the interrows.

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