

Evaluation Report for Category B, Subcategory 3.11, 3.12 Application

Application Number: 2007-2481
Application: category B, subcategory 3.11, 3.12 (new pest, new host)
Product: Isomate-P mating disrupter
Registration Number: 27141
Active ingredients (a.i.): contained in product:
(Z,Z)-3,13 Octadecadien-1-yl Actetate80.4% w/w
(E,Z)-3,13 Octadecadien-1-yl Actetate3.3% w/w
PMRA Document Number: 1426999

Background

Isomate-P Pheromone mating disrupter has been registered since May 13, 2002. Isomate-P Pheromone is registered for use on peaches, nectarines, cherries, prunes, plums, and apricots to disrupt the mating of the peach tree borer (*Synanthedon exitiosa*). For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application is to amend the registration of Isomate-P Pheromone to include use on apples, pears, hawthorne and mountain ash to disrupt the mating of apple clearwing moth (*Synanthedon myopaeformis*). Isomate-P Pheromone is formulated in plastic tube dispensers, each containing 37.8 mg of the product. For the proposed use, between 250 and 625 dispensers (9.5 - 23.6 g ai) per hectare are attached to branches around the mid-point of the tree before moth emergence in the spring. One application per year may be made. The proposed use pattern, application rate and timing are identical to the registered use.

Chemistry Assessment

A chemistry assessment was not required since there was no change to product chemistry.

Health Assessment

The proposed use site, use pattern, application rate and timing for the mating disruption of apple clearwing moth on the hosts: apple, pear, hawthorne and mountain ash is identical to the registered use of this product. There is not expected to be an increase in hazard to human health from this new use; nor is the occupational, post-application, bystander, or food residue exposure expected to increase for this use when compared to the registered use. The health database for this new use is complete.

Environmental Assessment

An environmental assessments was not required since the use site, number and rate of application of the component product remained unchanged form the registered use.

Value Assessment

To support the addition of a pest and host, one efficacy trial was considered. The trial evaluated the numbers of apple clearwing moths captured in Delta wing traps baited with either a standard peach tree borer pheromone lure or with a lure impregnated with 3X the amount of standard peach tree borer pheromone. Isomate-P dispensers were applied at a rate of 250/ha. Over the duration of the season, baited traps captured 98% fewer moths in orchards with Isomate-P compared to that with no Isomate-P. When the Delta traps were baited with standard pheromone, a total of 5 moths were captured in the Isomate-P treatment versus 28 in the untreated control, while the 3X standard baited traps captured 4 moths in the Isomate-P treatment and 546 in the untreated control. These results suggest that disruption of communication between male and female moths was achieved.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Isomate-P Pheromone mating disrupter to include the proposed use on apples, pears, hawthorne and mountain ash to disrupt the mating of the apple clearwing moth (*Synanthedon myopaeformis*).

References

A. List of Studies/Information Submitted by Registrant

Value Assessment

PMRA Document Number	Reference
1397775	2007, Part 10, Value of an EP - Application for an addition of a minor use, DACO: 10.1, 10.2.2, 10.2.3.1
1397780	2007, Part 10, Value of an EP - Efficacy of Isomate-P against Apple Clearwing Moth, DACO: 10.2.3.3

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