



Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2014-0899
Application: B.3.12 – New Site or Host
Product: Isomate CM Flex
Registration Number: 31589
Active ingredients (a.i.): (*E,E*)-8,10-dodecadien-1-ol, 1-dodecanol and 1-tetradecanol
PMRA Document Number : 2472062

Purpose of Application

The purpose of this application was to register the commercial class product Isomate CM Flex, a slow-release dispenser containing sex pheromones of the codling moth (172.28 mg of 52.96% *E,E*-8,10-dodecadien-1-ol, 29.73% 1-dodecanol, and 6.04% 1-tetradecanol per dispenser).

Isomate CM Flex is a slow-release pheromone dispenser consisting of a pair of plastic tubes that are attached at the ends but can be pulled apart in the middle to hang the dispenser on a tree branch. The product is for use in pome fruits, stone fruits, and tree nuts at rates of 500-1000 dispensers/ha for mating disruption of codling moth.

Chemistry Assessment

Isomate CM Flex contains the active ingredients (*E,E*)-8,10-dodecadien-1-ol at a nominal concentration of 52.96%, 1-dodecanol at a nominal concentration of 29.73% and 1-tetradecanol at a nominal concentration of 6.04%. This product has a specific gravity of 0.857 and a pH of 5.6. The chemistry requirements for Isomate CM Flex have been fulfilled.

Health Assessments

The technical grade active ingredient used to manufacture Isomate CM Flex is currently registered by the same applicant and is used in the manufacture of similar pheromone dispensers.

These active ingredients belong to the straight chained lepidopteran pheromones (SCLP) class of chemicals and the use pattern for which it is used meets the requirements to waive all toxicology data requirements as outlined in PMRA's Regulatory Proposal PRO2002-02: *Guidelines for the Research and Registration of Pest Control Products Containing Pheromones and Other Semiochemicals*.

The label statements for Isomate CM Flex, coupled with the end-use product's expected low toxicity, are considered adequate to address any potential risk due to exposure of the applicators and bystanders.

Maximum Residue Limit not required

Based on the low toxicity of SCLPs in general and the use pattern (little or no contact with the crop), a food residue exposure assessment was not performed and a Maximum Residue Limit (MRL) was not proposed.

Environmental Assessment

Environmental assessment was not required.

Value Assessment

A large-scale field trial confirmed that Isomate CM Flex is effective in disrupting male moths' response to pheromones, which is expected to reduce mating success and subsequent larval damage. In addition, this dispenser type is easier to apply and may be applied at a lower density compared to a similar product currently registered, thus reducing costs.

Conclusion

PMRA has reviewed information provided in support of the registration of Isomate CM Flex as described above. Based on this review, the subject product is acceptable for full registration.

References

2401331 2014, Part 10, Value for Registration of an EP, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.3.1, 10.5.1, 10.5.2, 10.5.3, 10.5.4

2401390	Acute Toxicology Studies for Registration of an EP, DACO: 4.6,4.6.1
2401393	2014, Exposure Summaries (EP), DACO: 5.1,5.2

2401350 2014, Part 3, Product Chemistry for Registration of an EP, DACO: 3.0,3.1.1,3.1.2, 3.1.3,3.1.4,3.2.1,3.5.1,3.5.10,3.5.2,3.5.3,3.5.4,3.5.5,3.5.6,3.5.7,3.5.9

2401351 2014, Part 3, Product Chemistry for Registration of an EP (CBI), DACO: 3.0, 3.1.2,3.2.1,3.2.2,3.3.1,3.4.1 CBI

ISSN: 1911-8082

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