EGVM Pheromone (011471) Fact Sheet

Summary

(E,Z)-7,9-Dodecadien-1-yl acetate, also to as EGVM Pheromone, is a technical grade synthetic straight-chained lepidopteran pheromone (SCLP). This pheromone is structurally similar to and mimics a naturally occurring pheromone produced by the female European grapevine moth (EVGM) (Lobesia botrana), to attract males for mating. The active ingredient will mitigate the effects of the moth by disrupting its normal mating cycle on table and wine grapes. The pheromone will be contained in a twist-tie dispenser that consists of a polyethylene plastic tube parallel to an associated aluminum wire within the field. Based on the data reviewed by EPA, EGVM Pheromone will not cause adverse effects to humans and other nontarget organisms when used according to label directions.

I. Description of the Active Ingredient

The active ingredient Cold Pressed Cold Pressed Neem Oil has a brown color, a bitter taste and a garlic/sulfur smell.

- **Common Name:** EGVM Pheromone
- **Chemical Names:** (E,Z)-7,9-Dodecadien-1-yl Acetate
- **Trade & Other Names:** EGVM Pheromone
- **OPP Chemical Code:** 011471
- **Type of Pesticide:** Mating disrupter for European grapevine moth

II. Use Sites, Target Pests, and Application Methods

The active ingredient will mitigate the effects of the EGVM by disrupting the normal mating cycle of the EGVM on table and wine grapes. The pheromone will be contained in a twist-tie dispenser that consists of a polyethylene plastic tube parallel to an associated aluminum wire within the field. Each twist tie dispenser will be tied, by hand directly on the plant or trellis wires and slowly releases infinitesimal amounts of pheromone into the atmosphere. The pheromone slowly diffuses from the inside of the tube to the surface where it volatilizes in microgram amounts.

III. Assessing Risks to Human Health

No risk to human health is expected from the use of EGVM Pheromone because of its low toxicity and negligible expected exposure. EGVM Pheromone is a naturally occurring straight-chain lepidopteran pheromones (SCLPs) for which EPA has previously registered many products and compiled a substantial database. SCLPs have a non-toxic mode of action, are generally effective at very low rates and are used in point source applications such as retrievable twist tie dispensers. Based on the Agency’s risk assessment of this
class of compounds, including the EGVM pheromone, the Agency has determined that registration of Isomate-EGVM will not cause harm to humans and will not cause unreasonable adverse effects on the environments particularly given the fact that the product, when applied, volatizes when released. EGVM Pheromone is also exempt from the requirement of a tolerance in or on raw agricultural commodities under 40 CFR §180.1153.

Based on the review and analysis of the guideline studies, no additional toxicity data are required to support food uses of this biochemical.

IV. **Assessing Risks to the Environment**

According to 40 CFR 158.2060 (a) (2), ecological data are not required for SCLPs, when applied at a maximum use rate of 150 grams active ingredient/acre/year, and they are not expected to available to avian species (i.e., granular formulation). EVGM pheromone is structurally similar to and mimics a naturally occurring pheromone produced by the female European grapevine moth (Lobesia botrana), to attract males for mating. This compound will be contained in a twist-tie dispenser that releases less than 150 grams active ingredient/acre/year.

V. **Regulatory Information**

On November 16, 2009, Pacific Biocontrol Corporation, submitted an application for the registration of the end use product (EP) Isomate® - EGVM, containing 75.68% of the active ingredient E,Z)-7,9-Dodecadien-1-yl acetate. A notice of receipt of the application for registration of EGVM Pheromone as a new active ingredient was published in the Federal Register on February 01, 2010 (75 FR 5077), with a 30-day comment period. To date, a comment which does not support the registration of this active ingredient has been received but, this comment does not impact the Agency’s preliminary risk assessment of EGVM. EPA also had received many twelve requests from several wine grape growers in support of the Agency’s preliminary determination to issue the registration of this product. All comments have been included in the docket (EPA-HQ-OPP-2010-0020).

On April 13, 2010, the Agency granted the registration of the end use products (EP) Isomate® - EGVM, containing 75.68% of the active ingredient E,Z)-7,9-Dodecadien-1-yl acetate (53575-GA).

VI. **Registrant Information**
VII. Additional Contact Information:

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