

Lavandulyl Senecioate (036005) Fact Sheet

Summary

Lavandulyl Senecioate is a technical grade synthetic arthropod pheromone. This pheromone is structurally similar to and mimics a naturally occurring pheromone produced by the female vine mealybug (*Planococcus ficus*) to attract the males for mating. Lavandulyl Senecioate is intended for use in polymeric dispensers to disrupt the normal mating cycle of vine mealybug on raisins, table and wine grapes. Based on the data reviewed by EPA, Lavandulyl Senecioate 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 Lavandulyl Senecioate is a yellow liquid with a slightly burnt oily smell.

Common Name: Lavandulyl Senecioate

Chemical Names: 5-methyl-2-(1-methylethenyl)-4-hexenyl 3-methyl-2-butanate

Trade & Other Names: Lavandulyl Senecioate

CAS Registry Number: 23960-07-8

OPP Chemical Code: 036005

Type of Pesticide: Mating disrupter for vine mealybug

II. Use Sites, Target Pests, and Application Methods

Lavandulyl Senecioate is intended for use in polymeric dispensers to disrupt the normal mating cycle of vine mealybug on raisins, table and wine grapes.

III. Assessing Risks to Human Health

No risk to human health is expected from the use of Lavandulyl Senecioate because of its low toxicity and negligible expected exposure. Lavandulyl Senecioate is a naturally occurring arthropod pheromone with a non-toxic mode of action. It is generally effective at very low rates and is used in point source applications such as retrievable polymeric dispensers. The Agency has already conducted a risk assessment on the arthropod pheromones and has determined that they are low toxicity and will cause no unreasonable harm to human health and to the environment. Moreover, published subchronic studies on compounds similar in structure to arthropod pheromones have been submitted indicating these compounds have no significant human health effects. As a result only acute

mammalian toxicology data were required for this registration. As an arthropod pheromone, used in retrievable, polymeric matrix dispensers, at a rate not higher than 150 grams active ingredient per acre per year, Lavandulyl Senecioate is exempt from the requirement of a tolerance in or on raw agricultural commodities under 40 CFR §180.1124.

IV. Assessing Risks to the Environment

According to 40 CFR 158.2060 (a) (2), arthropod pheromones when applied at up to a maximum use rate of 150 grams active ingredient/acre/year, are not required to provide non-target toxicity data. Lavandulyl Senecioate is a synthetic arthropod pheromone that is structurally similar to and mimics the pheromone produced by the female vine mealybug. This compound acts on a select group of insects (vine mealybugs) and has a non-toxic mode of action. Lavandulyl Senecioate will be used in retrievably sized polymeric dispensers within traps at a rate not exceeding 150 grams/acre/year.

V. Regulatory Information

On November 07, 2008, Suterra LLC, submitted an application for the registration of the end use product (EP) CheckMate® VMB Dispenser (56336- LA) containing 5.91% Lavandulyl Senecioate, and CheckMate VMB Technical Pheromone (56336-LL) containing 97.66% Lavandulyl Senecioate. A notice of receipt of the application for registration of Lavandulyl Senecioate as a new active ingredient was published in the Federal Register on February 18, 2009 (74 FR 7601), with a 30-day comment period. No comments were received following this publication.

On January 28, 2010, the Agency granted the registration of the end use products (EP) CheckMate® VMB Dispenser (56336- LA) containing 5.91% Lavandulyl Senecioate, and CheckMate VMB Technical Pheromone (56336-LL) containing 97.66% Lavandulyl Senecioate.

VI. Registrant Information

Suterra, LLC
213 SW Columbia Street
Bend, OR 97702-1013

VII. Additional Contact Information:

[Ombudsman, Biopesticides and Pollution Prevention Division](#) (7511P)
Office of Pesticide Programs
Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460